

Test Name: 11-Desoxycortisol **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Compound S, 11-Deoxycortisol

Reference Ranges:

11-Desoxycortisol, Serum ng/dL (SI: nmol/L = 0.0289 x ng/dL)

Performed at Esoterix Endocrinology, Calabasas Hills CA

Effective 14Mar01 - present:

Premature (26 - 28w) Day 4
Premature (31 - 35w) Day 4
Newborn Day 3:
4D - 30D:
31D - 11M:
110 - 1376
48 - 579
Not established
<10 - 156

1Y - 10Y (Prepubertal) 8:00 AM 20 – 155 Pubertal Children - 150Y 8:00 AM: 12 – 158

Effective 19Sep94 - 14Mar01: No ranges available

Performed at SmithKline Beecham, Van Nuys CA Effective until 18Sep94: No ranges available



Test Name: 17-Hydroxy Corticosteroids

Department: Laboratory Medicine

Lab Area: Chemistry **Synonyms:** 17-OH, 17OH

Reference Ranges:

17-Hydroxy Corticosteroids mg/24 hour (SI: mg/24 hour)

Perfromed at National Institutes of Health, Bethesda MD

Effective 17Jul80 - present:

Male: 3-10 Female: 2-6

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jan79 – 16Jul80:

Male: 4.5 - 12Female: 2.5 - 10

Test Name: 17-Ketogenic Steroids, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: 17-KGS

Reference Ranges:

Test no longer performed as of 08Jan/03

17-Ketogenic Steroids mg/24hr (SI: umol/d = 3.47 x mg/24hr)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 08Jan03:

0Y-10Y 0.1 - 4.0 11Y-14Y 2 - 9

Males >=15Y 4 - 14 Females >=15Y 2 - 12

Performed at SmithKline Beecham, Van Nuys CA

Effective 20Dec86 - 18Sep94:

Child 2.3 - 3.3 Male 5 - 23 Female 3 - 15

Effective 01Jan79 - 20Dec86:

Male

0Y-1Y 0 - 1 2Y-10Y 0 - 5

11Y-70Y 5 - 23

>=71Y 3 - 12

Female

 $0Y-1Y \qquad 0-1$

2Y-10Y 0 - 5

11Y-70Y 3 - 15

>=71Y 3 - 12

Test Name: 17-Ketosteroids **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: 17-KS

Reference Ranges:

Test no longer available at Mayo

17-Ketosteroids mg/dL (SI: umol/d = 3.47 x mg/24hr)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 13Dec04:

0Y-10Y 0.1 - 3

11Y-14Y 2 - 7

Males >=15Y 6 - 21

Females $\geq =15Y 4 - 17$

Performed at SmithKline Beecham, Van Nuys CA

Effective 16Mar94 - 18Sep94:

2Y - 17Y 0.8 - 8.1

Male >=18Y 7 - 20

Female >=18Y 5 - 15

Effective 20May91 - 18Sep94:

5Y-8Y 0 - 2

9Y-12Y 1 - 5

13Y-15Y 2.5 - 10

Adult Female 5 - 15

Effective 01Jan79 - 18Sep94: Adult Male 9 - 22

Effective 04Jan89 -19May91: Adult Female 6 - 15

Effective 01Jul85 - 03Jan89: 5 - 15

Effective 01Jan79 - 30Jun85: 6 - 15



Test Name: 17-OH Pregnenolone, Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: HYPL

Reference Ranges:

17-OH Pregnenolone, Serum ng/dL

Performed at Esoterix Endocrinology, Calabasas Hills CA

Effective 08Jan03 – present:

PREMATURE INFANTS: 26-28 Weeks, Day 4 375 - 3559 (Mean=1402)

31-35 Weeks, Day 4 64 - 2380 (Mean=1107)

FULL-TERM INFANTS:

3 Days 10 - 829 (Mean=246)

1-6 Months 36 - 763 (Mean=224)

6-12 Months 42 - 540 (Mean=69)

PREPUBERTAL CHILDREN:

1-10 Years 15 - 221 (Mean=56)

PUBERTAL AGE GROUP: 44 - 235 (Mean=56)

ADULTS: 53 - 357 (Mean=124)



Test Name: 21-Hydroxylase Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Adrenal 21-OH, 21OHK

Reference Ranges:

Adrenal 21-Hydroxylase Antibody U/mL

Performed at Esoterix Endocrinology, Calabasas Hills CA Effective 08Jan03 – present: 0.0 - 0.9 Reference ranges represent adult values.



Test Name: 5'Nucleotidase Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

5'Nucleotidase *U/L* (SI: U/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 09Jul03 - present: 4.0 - 11.5

Performed at ARUP Laboratories, Salt Lake City UT

Effective 02May03 – 08Jul03: 0.0 - 15.0

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 01May03: 4.0 - 11.5 Effective 22Jul92 - 18Sep94: 2.5 - 13 Effective 20May91 - 21Jul92: 2 - 15 Effective 04Jan89 - 19May91: 0 - 13 Effective 01Jul85 - 03Jan89: 2.5 - 13

Effective $01Jan79 - 30Jun85 \text{ mU/mL } (SI = U/L \times 1): 2.2 - 15$



Test Name: 5-Flucytosine **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Flucytosine, 5-Fluorocytosine, 5-FC

Reference Ranges:

Flucytosine $\mu g/mL$ (SI = $\mu g/mL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 16Jun00 – present:

Therapeutic 50 - 100Toxic >100

Performed at National Institutes of Health, Bethesda MD

Effective 02Apr92 – 15Jun00:

Therapeutic 50 - 100Toxic >100



Test Name: 5-Hydroxyindolacetic Acid **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: 5HIAA

Reference Ranges:

5-Hydroxyindolacetic Acid mg/24hr (SI = 5.2 x umol/d)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: <=6.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 - 18Sep94: <9.0 Effective 04Jan89 - 19May91: <5.7

Effective 01Jul85 - 03Jan89: 0.0 - 15.9 Effective 01Jan79 - 30Jun85: 1.0 - 7.0



Test Name: Acetaminophen **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Tylenol

Reference Ranges:

Acetaminophen mg/L (SI: umol/L = 6.62 x mg/L) (mg/L = ug/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 - present:

Therapeutic <50 mg/L
Toxic >=120 mg/L
Half-life <4 hours
Toxic half-life >4 hours

The toxic level is dependent on half-life. When the half-life is 4 hours, hepetatotoxicity generally is not seen until the concentration is greater or equal to 120 mg/L. The level at which toxicity occurs decreases with increasing half-lives until it is encountered at values as low as 50 mg/L when the half-life reaches 12 hours.

Performed at American Medical Labs, Chantilly VA Effective 02Apr92 - 30May95: Therapeutic 10-30 mg/L Toxic >20 mg/L

Performed at MetPath Labs, Rockville MD

Effective until 01Apr92:

Therapeutic 10-30 Toxic >20



Test Name: Acetylcholine Receptor Binding Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Acetylcholine Receptor Binding Antibody nmol/L (SI = nmol/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 0.00 - 0.02

Performed at SmithKline Beecham, Van Nuys CA

Effective 02Dec92 - 18Sep94: 0.0 - 0.4



Test Name: Acid Phosphatase, Total **Department:** Laboratory Medicine **Quest Diagnostics**

Synonyms:

Reference Ranges:

Acid Phosphatase, Total U/L (SI = U/L)

Performed at Quest Diagnostics, San Juan Capistrano CA

Effective 26Apr04 – present: 3.1 - 7.0Effective 13Nov02 - 25Apr04: 2.3 - 5.0

Performed at American Medical Labs, Chantilly VA

Effective 12Ju100 - 12Nov02: 0.0 - 5.7

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 - 11Jul00: 0.0 - 0.4



Test Name: Activated Protein C Resistant

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms: APCR

Reference Ranges:

Activated Protein C Resistant

Performed at National Institutes of Health, Bethesda MD Effective 13Jun01 - present:

Male: 2.2 - 3.7 Female: 2.2 - 3.4



Test Name: Acute Care Panel **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Acute Care Panel

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 - present:

 $\begin{array}{lll} \text{Sodium} & 135\text{-}144 \ \textit{mmol/L} \\ \text{Potassium} & 3.3\text{-}5.1 \ \textit{mmol/L} \\ \text{Chloride} & 99\text{-}107 \ \textit{mmol/L} \\ \text{Total CO}_2(\text{Bicarbonate}) \ 21\text{-}31 \ \textit{mmol/L} \end{array}$

Creatinine Male: 0.9-1.4 mg/dL

Female: $0.7-1.3 \, mg/dL$

Glucose 70-115 mg/dL Urea Nitrogen 8-22 mg/dL



Test Name: Adenovirus 40/41 **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Adenovirus 40/41

Performed at National Institutes of Health, Bethesda MD Effective 01Jan85 – present: Negative for Adenovirus 40/41 by EIA



Test Name: Adenovirus Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Adenovirus Antibodies

Performed at Mayo Medical Labs, Rochester MN
Effective 21Jul03 - present:
Adenovirus Ab IgG <1:10
Adenovirus Ab IgM <1:10
A fourfold or greater rise in paired sera titer indicates recent infection.

Effective 19Sep94 - 20Jul03: Normal = Negative A fourfold or greater rise in paired sera titer indicates recent infection.



Test Name: Adenovirus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology
Synonyms: ADEVC

Reference Ranges:

Adenovirus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 - present: No virus isolated

Performed at American Medical Labs, Chantilly VA

Effective until 18Sep94: No virus isolated



Test Name: Adenovirus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Adenovirus Culture

Performed at the National Institutes of Health, Bethesda MD Effective 19Sep94 - present: No virus isolated

Performed at American Medical Labs, Chantilly VA Effective until 18Sep94: No virus isolated



Test Name: Adenovirus EIA Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Adenovirus EIA

Performed at National Institutes of Health, Bethesda MD Effective 01Jan85 – present: Negative for Adenovirus by EIA



Test Name: Adenovirus EIA Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Adenovirus EIA

Performed at National Institutes of Health, Bethesda MD Effective 01Jan85 – present: Negative for Adenovirus by EIA



Test Name: ADH / Arginine Vasopressin

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Antidiuretic Hormone

Reference Ranges:

Arginine Vasopressin pg/mL (SI: 1.0 x pg/mL = ng/L)

Performed at Mayo Medical Labs, Rochester MN Effective 01Oct02 - present: (>=16Y) <1.7

Performed at ARUP Laboratories, Salt Lake City UT

Effective 01Aug01 - 30Sep02: 0.0 - 4.7

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 19Sep94 - 31Jul01: 1.0 - 13.3

Performed at SmithKline Beecham, Van Nuys CA

Effective 25Mar88 - 18Sep94: <2.0 (Serum Osmol: <285)

2.0 - 12.0 (Serum Osmol: >290)



Test Name: Adrenal Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: ADRK

Reference Ranges:

Order 21-Hydroroxylase Antibodies instead.

Adrenal Antibodies

Performed at Quest Diagnostics, San Juan Capistrano CA Effective 24Jul02 - 22Dec04: If positive, a titer will be performed.



Test Name: Adrenocorticotropic Hormone

Department: Laboratory Medicine

Lab Area: Chemistry Synonyms: ACTH

Reference Ranges:

Adrenocorticotropic Hormone pg/mL (SI: pmol/L = pg/mL x 0.22)

Performed at National Institutes of Health, Bethesda MD

Effective 20Sep00 -present: 9 - 52

Performed at Mayo Medical Labs, Rochester MN

Effective 24Jan00 – 19Sep00:

1D-15Y Not Established

>=16Y 10-60

Effective 27Apr98 – 23Jan00: 0 - 23 Effective 19Sep94 – 26Apr98: 0 – 60

Performed at SmithKline Beecham, Van Nuys CA

Effective 15Jul91 – 18Sep94: 9 – 52 Effective 22Jan88 – 14Jul91: < 70 Effective 01Oct87 – 21Jan88: 0 - 80



Test Name: Alanine Aminotransferase **Department:** Laboratory Medicine

Lab Area: Chemistry **Synonyms:** ALT, SGPT

Reference Ranges:

Alanine Aminotransferase *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 - present: 6-41 Effective 01Jan79 - 30Nov88: 3-44



Test Name: Albumin Quotient, CSF & Serum

Department: Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

This test is included in the IgG Index. Can not be ordered as a separate test.

Albumin Quotient

Performed at National Institutes of Health, Bethesda MD

Effective 17Jul85 – present: 3.2 - 9 ratio

CSF Albumin mg/dL

Performed at National Institutes of Health, Bethesda MD

Effective 17Jul85 – present: 10 - 31



Test Name: Albumin, CSF Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

CSF albumin mg/dL

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present: 12 - 33 Effective 17Jun85 – 10Jun03: 10 - 31



Test Name: Albumin, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Albumin, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 - present: No ranges available



Test Name: Albumin, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Albumin g/dL (SI: $g/L = g/dL \times 10$)

Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 - present: 3.7-4.7 Effective 01Jan79-30Nov88: 3.8-4.9



Test Name: Aldolase

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Aldolase *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 03Jul96 - present: 1-6 Effective 01Jan79 - 02Jul96: 1-7



Test Name: Aldosterone, Serum Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Aldosterone, Serum ng/dL (SI: 0.0277 x ng/dL = nmol/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present:

Upright 0D-30D: 16.5 - 154
Supine 1M-11M: 6.5 - 86
Supine 1Y-10Y: 3.0 - 39.5
Upright 1Y-10Y: 3.5 - 124
AM peripheral vein >=11Y 1.0 - 21.0



Test Name: Aldosterone, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Aldosterone, Serum ng/dL (SI: 0.0277 x ng/dL = nmol/L)

Performed at National Institutes of Health, Bethesda MD

8 - 10 AM upright/sitting 3 - 34 ng/dL 8 - 10 AM supine 2 - 19 ng/dL

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 27Feb05:

Upright 0D-30D: 16.5 - 154
Supine 1M-11M: 6.5 - 86
Supine 1Y-10Y: 3.0 - 39.5
Upright 1Y-10Y: 3.5 - 124
AM peripheral vein >=11Y 1.0 - 21.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 - 18Sep94:

(Normal Na Intake 100-200 mmol/d)

Upright: 4 - 31 Supine: <16

Effective 01Dec87 - 19May91:

(Na Intake 10 mmol/d)

7AM Fasting, Recumbent: 12 - 369AM, Fasting, Upright: 17 - 137

(Na Intake 100-200 mEq/d)

7AM Fasting, Recumbent: 3-99AM Fasting, Upright: 4-30Adrenal vein: 200-400

Test Name: Aldosterone, Urine Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Aldosterone, Urine ug/24hr (SI: 2.77 x ug/24hr = nmol/d)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present:

0.7 - 11.0 (0-30 days)

0.7 - 22.0 (1-11 months)

 $2.0 - 16.0 \quad (>= 1 \text{ year})$

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 - 18Sep94:

2 - 19 (Normal Sodium Intake : 100-200 mmol/24hr)

Effective 15Jan90 - 19May91:

20 - 80 (Sodium Intake : 10 mmol/24hr)

3 - 19 (Normal Sodium Intake : 100-200 mmol/24hr)

2 - 12 (Sodium Intake : >200 mmol/24hr)

Effective 14Jan88 - 14Jan90:

2 - 19 (Normal Sodium Intake : 100-200 mmol/24hr)

Test Name: Alkaline Phosphatase **Department:** Laboratory Medicine

Lab Area: Chemistry **Synonyms:** alk phos

Reference Ranges:

Alkaline Phosphatase *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 - present:

Male and Female >18Y 37 - 116

Effective 18Dec01 - present:

Male:

1D-30D 75 - 316 31D-365D 82 - 383 1Y-3Y 104 - 345 4Y-6Y 93 - 309 7Y-9Y 86 - 315 10Y-12Y 42 - 362 13Y-15Y 74 - 390 16Y-18Y 52 - 171

Female:

1D-30D 48 - 406 31D-365D 124 - 341 1Y-3Y 108 - 317 4Y-6Y 96 - 297 7Y-9Y 69 - 325 10Y-12Y 51 - 332 13Y-15Y 50 - 162 16Y-18Y 47 - 119

Specimen type for children <=18 years was plasma and/or serum.

Effective 01Jan79 - 30Nov88:

Male & Female: >18Y 36 - 124



Test Name: Alkaline Phosphatase, Heat Stable

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Alkaline Phosphatase, Heat Stable

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present:

<20 percent residual activity suggests bone isoenzymes.

25-55 percent residual activity suggests liver and/or intestinal isoenzymes.



Test Name: Alkaline Phosphatase, Bone specific

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Alkaline Phosphatase, Bone specific $\mu g/L$ (SI: $\mu g/L$)

Performed at Mayo Medical Labs, Rochester MN

Effective 14Nov01 - present: Male $0-20 \mu g/L$

Premenopausal $0 - 14 \mu g/L$ Postmenopausal $0 - 22 \mu g/L$

Effective 12Jul01 - 13Nov/01:

Male Adult 5.9 – 22.9 Premenopausal 3.9 – 15.1 Postmenopausal 6.4 – 24.4 2M-24M 25.4 - 124 2-9 yrs 24.1 – 89.5 Tanner I-II 19.5 – 87.5

Tanner III-IV 19.5 – 156



Test Name: Alpha-1 Antitrypsin **Department:** Laboratory Medicine

Lab Area: Immunology Synonyms: A-1, AAT

Reference Ranges:

Alpha-1 Antitrypsin mg/dL (SI: $g/L = 0.01 \times mg/dL$) Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present: 89 – 199 Effective 05Oct94 – 10Jun03: 114 – 275 Effective 06Jan93 - 04Oct94: 80 - 194 Effective 03May91 - 05Jan93: 115 - 315 Effective 21May87 - 02May91: 85 - 213

Performed at American Medical Labs, Chantilly VA

Effective 01Jul85 - 20May87 85 - 213 Effective 23Dec82 - 30Jun85: 140 - 330 Effective 28Feb80 - 22Dec82: *mg/L* 210 - 500 Effective 01Jan79 - 27Feb80: *g/L* (SI: g/L)

Female: 1.0 - 2.44 Male: 0.8 - 1.94



Test Name: Alpha-fetoprotein **Department:** Laboratory Medicine

Lab Area: Chemistry **Synonyms:** AFP, a1

Reference Ranges:

Alpha-fetoprotein ng/mL (SI: $\mu g/L = 1 \times ng/mL$)

Performed at National Institutes of Health, Bethesda MD

Effective 10Mar04 - present: <11.0 Effective 07Feb91 - 09Mar04: < 9.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 04Jan89 - 07Feb91: < 9.0 Effective 04Aug86- 03Jan89: 0 - 8.5 Effective 01Apr85 - 03Aug86: 0 - 10 Effective 01Jan79 - 31Mar85: 0 - 25



Test Name: Alpha-Fucosidase, Fibroblasts

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Alpha-Fucosidase, Fibroblasts *U/g of cellular protein* (SI: U/g)

Performed at Mayo Medical Labs, Rochester MN

Effective 09Oct96 to present: 1.30 - 3.60



Test Name: alpha-Neuraminidase, Fibroblasts

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed

alpha-Neuraminidase, Fibroblasts

Performed at E. K. Shriver Center (operational until Sept. 2001)

Lysosomal Storage Diseases Lab, Waltham MA

Effective 09Oct96 – 25Sep01: Normal control noted on report.



Test Name: Alpha-Subunit of Pituitary Hormones

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Glycoprotein, a-subunit PGH HCG TSH FSH

LH

Reference Ranges:

Alpha-Subunit of Pituitary Glycoprotein Hormones $\mu g/L$ (SI: $\mu g/L$)

Performed at Mayo Medical Labs, Rochester MN

Effective 28May97 - present: 0.0 - 1.1



Test Name: Alpha 2 Antiplasmin Laboratory Medicine

Lab Area: Hematology

Synonyms: a2-Antiplasmin, A2-PI

Reference Ranges:

Alpha 2 Antiplasmin % (SI: fraction = $0.01 \times \%$)

Performed at National Institutes of Health, Bethesda MD

Effective 20Jan99 - present: 82 – 123 Effective 18Mar98 - 19Jan99: 78 – 113



Test Name: Alpha 2 Macroglobulin **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: a2M **Reference Ranges:**

Alpha 2 Macroglobulin mg/dL (SI: 0.01 x mg/dL = g/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 12Oct00 - present: 100 - 280 Effective 30Jul97 - 11Oct00: 115 - 225



Test Name: Alpha Amino Nitrogen, Urine

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Alpha Amino Nitrogen, Urine mg/24hr (SI: mmol/d = 14.28 x mg/24hr)

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jan79 - 28Jul87: 50 - 200



Test Name: Amebiasis Antibody
Department: Lab Area: Mayo Medical Labs
Synonyms: E. Histolytica Antibody

Reference Ranges:

Amebiasis (E. Histolytica Antibody)

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 to present:

Negative; If positive, results are titered.

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Sep90 - 18Sep94:

Active or recent infection: >=1:128
Current infection: 1:256 - 1:2048
No invasive disease: <1:32
Grey zone (suggest retest): 1:32 - 1:64

Performed at American Medical Labs, Chantilly VA

Effective 02Mar86 - 31Aug90:

Active or recent infection: >=1:128
Current infection: 1:256 - 1:2048
No invasive disease: <1:32
Grey zone (suggest retest): 1:32 - 1:64

Performed at the Center of Disease Control, Atlanta GA

Effective until 01Mar86:

Active or recent infection: >=1:128
Current infection: 1:256 - 1:2048
No invasive disease: <1:32
Grey zone (suggest retest): 1:32 - 1:64

Test Name: Amikacin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Amikacin mg/L (SI: μ mol/L = 1.71 x mg/L) Performed at National Institutes of Health

Effective 02Apr92 - present:

Therapeutic:

Pre <8

Post 25 - 35

Toxic:

Pre >10

Post >35

Effective until 02Apr92:

Therapeutic:

Pre <10

Post 20 - 35

Toxic:

Pre >10

Post >35



Test Name: Amino Acids Qualitative, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Amino Acids Qualitative Urine

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 - present: Interpretive report is issued with any significant clinical findings.

Performed at SmithKline Beecham Clinical Laboratories, Van Nuys CA Effective 18Mar88 - 18Sep94: Qualitative report issued.

Test Name: Amino Acids Quantitative Ion-Exchange, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Amino Acids Quantitative Ion-Exchange Urine *µmol/24hrs* (SI: µmol/d)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present:

0Y-2Y not established

Taurine

3Y-15Y 35 – 260 16Y-150Y 267 – 1290

Threonine

3Y-15Y 25 - 100 16Y-150Y 80 - 320

Serine

3Y-15Y 93 – 210 16Y-150Y 200 – 695

Asparagine

3Y-15Y 15 – 40 16Y-150Y 34 – 100

Glutamic Acid

3Y-15Y 13 – 22 16Y-150Y 27 – 105

Glutamine

3Y-15Y 150 – 400 16Y-150Y 300 – 1040

Glycine

3Y-15Y 195 – 855 16Y-150Y 750 – 2400

Alanine

3Y-15Y 65 – 190 16Y-150Y 160 – 690

Citrulline

3Y-15Y 0-1316Y-150Y 0-11

Alpha-Aminodipic Acid

3Y-15Y 25-78 16Y-150Y 0-135

Alpha-Amino-N-Butyric Acid

3Y-15Y 7-2516Y-150Y 0-28

Valine

3Y-15Y 17 - 37 16Y-150 19 - 74

Cystine

3Y-15Y 11 - 53 16Y-150Y 28 - 115

Cystathionine

3Y-15Y 2-7 16Y-150Y 0-47

Methionine

3Y-15Y 7-2016Y-150Y 5-30

Isoleucine

3Y-15Y 3-15 16Y-150Y 4-23

Leucine

3Y-15Y 9-23 16Y-150Y 20-77

Tyrosine

3Y-15Y 30 - 83 16Y-150Y 38 - 145

Phenylalanine

3Y-15Y 20 - 61 16Y-150Y 36 - 90

Beta-Alanine

$$3Y-15Y 0-42$$

 $16Y-150Y 0-93$

Beta-Aminoisobutyric Acid

3Y-15Y 25 – 96 16Y-150Y 10 – 235

Ornithine

3Y-15Y 3-1616Y-150Y 5-70

Lysine

3Y-15Y 19 – 140 16Y-150Y 32 – 290

1-Methylhistidine

3Y-15Y 41 – 300 16Y-150Y 68 – 855

Histidine

3Y-15Y 46 – 725 16Y-150Y 500 – 1500

3-Methylhistidine

3Y-15Y 42 - 135 16Y-150Y 64 - 320

Carnosine

3Y-15Y 34 – 220 16Y-150 16 – 125

Arginine

3Y-15Y 10 – 25 16Y-150Y 13 – 64

Interpretation:

When abnormal results are detected, a detailed interpretation is given, including an overview of the results and of their significance, a correlation to available clinical information, elements of differential diagnosis, recommendations for additional biochemical testing, and in vitro confirmatory studies (enzyme assay, molecular analysis), name and phone number of key contacts who may provide these studies at Mayo or elsewhere, and a phone number to reach one of the laboratory directors in case the referring physician has additional questions.

Performed at SmithKline Beecham, Van Nuys CA Effective until 18Sep94: Reference ranges indicated on patient reports.



Test Name: Amino Acids Quantitative, CSF

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Amino Acids QN, CSF

Performed at Children's Hospital, Philadelphia PA Effective 09Sep96 - present: Reference ranges are issued with a written report.



Test Name: Amino Acids Quant. Ion-Exchange, Plasma

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Amino Acids QN Ion-Exchange, Plasma *µmol/L* (SI: µmol/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 09Dec99 - present:

<u>AGEGROUPS</u>							
<u> </u>	Premature Premature	<u>1D-31D</u>	32D-24M	<u>25M-18Y</u>	>=19Y		
Taurine	151-411	46-492	15-143	10-170	54-210		
Threonine	150-330	90-329	24-174	35-226	60-225		
Serine	127-248	99-395	71-186	69-187	58-181		
Asparagine	90-295	29-132	21-95	23-112	35-74		
Glutamic Acid	1 107-276	62-620	10-133	5-150	10-131		
Glutamine	248-850	376-709	246-1182	254-823	205-756		
Proline	92-310	110-417	52-298	59-369	97-329		
Glycine	298-602	232-740	81-436	127-341	151-490		
Alanine	212-504	131-710	143-439	152-547	177-583		
Citrulline	20-87	10-45	3-35	1-46	12-55		
Alpha-Amino-	N-Butyric	Acid					
	14-52	8-24	3-26	4-31	5-41		
Valine	99-220	86-190	64-294	74-321	119-336		
Cystine	15-70	17-98	16-84	5-45	5-82		
Methionine	37-91	10-60	9-42	7-47	10-42		
Isoleucine	23-85	26-91	31-86	22-107	30-108		
Leucine	151-220	48-160	47-155	49-216	72-201		
Tyrosine	147-420	55-147	22-108	24-115	34-112		
Phenylalanine	98-213	38-137	31-75	26-91	35-85		
B-Alanine	0	0-10	0-7	0-7	0-12		
Ornithine	77-212	48-211	22-103	10-163	48-195		
Lysine	128-255	92-325	52-196	48-284	116-296		
Histidine	72-134	30-138	41-101	41-125	72-124		
Arginine	34-96	6-140	12-133	10-140	15-128		

Performed at Mayo Medical Labs, Rochester MN Effective 06Mar99 - 08Dec99:

	<u>1D-2Y</u>	<u>3Y-15Y</u>	>=16Y
Taurine	11-125	11-120	45-130
Threonine	21-204	67-150	92-240
Serine	79-183	93-150	56-140

Asparagine	20-74	8-37	24	-79			
Glutamic Acid 24-132		32-140) 1	18-98			
Glutamine	355-788	420-730) 39	390-650			
Proline	91-265	130-290) 110	110-360			
Alanine	141-503	200-45	0 23	230-510			
Citrulline	7-38	16-32 16-55		-55			
Alpha-Amino-N-Butyric Acid							
	6-24	8-37	15-4	1			
Valine	82-262	160-350) 150	0-310			
Cystine	9-43	19-41 30		-47			
Methionine	13-42	13-30	10	6-30			
Isoleucine	19-81	37-140 42-100		-100			
Leucine	43-143	70-170 66-170		5-170			
Beta-Alanine 0-21		0-49	(0-29			
Ornithine	22-112	44-90	2	7-80			
Lysine	66-204	120-290 150-220		0-220			
Histidine	45-102	68-120 26		6-120			
Arginine	23-108	44-12	0 4	45-130			
	<u>1D-7D</u>	8D-2Y	<u>3Y-15Y</u>	>=16Y			
Tyrosine	33-122	29-108	26-110	45-74			
Phenylalanir	ne 42-124	33-71	26-86	41-68			
	<u>1D-11M</u>	<u>12M-35M</u>	<u>3Y-15Y</u>	>=16Y			
Glycine	152-375	126-321	110-240	170-330			

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 05Mar99: No ranges available

Performed at SmithKline Beecham, Van Nuys CA Effective until 18Sep94: No ranges available



Test Name: Amino Acids, QN, Random Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Amino Acids QN, Random, Urine *nmol/mg creat* (SI: nmol/mg creat)

Performed at Mayo Medical Labs, Rochester MN

Effective 13Feb02 - present:

Taurine

premature 5190 – 23620 1D-31D 1650 – 6220 1M-24M 545 – 3790 2Y-18Y 639 – 1866 19Y-150Y 380 – 1850

Threonine

premature 840 – 5700 1D-31D 445 – 1122 1M-24M 252 – 1528 2Y-18Y 121 – 389 19Y-150Y 130 – 370

Serine

premature 1680 – 6000 1D-31D 1444 – 3661 1M-24M 845 – 3190 2Y-18Y 362 – 1100 19Y-150Y 240 – 670

Asparagine

premature 1350 – 5250 1D-31D 185 – 1550 1M-24M 252 – 1280 2Y-18Y 72 – 332 19Y-150Y 99 – 470

Glutamic Acid

premature 380 – 3760 1D-31D 70 – 1058 1M-24M 54 – 590 2Y-18Y 0 – 176

Glutamine

premature 520 – 1700 1D-31D 393 – 1042 1M-24M 670 – 1562 2Y-18Y 369 – 1014 19Y-150Y 190 – 510

Alpha-Aminodipic Acid

premature 70 – 460 1D-31D 0 – 180 1M-24M 45 – 268 2Y-18Y 2 – 88 19Y-150Y 40 – 110

Proline

premature 1350 – 10460 1D-31D 370 – 2323 1M-24M 254 – 2195 2Y-150Y 0 – 0

Glycine

premature 7840 – 23600 1D-31D 5749 – 16423 1M-24M 3023 – 11148 2Y-18Y 897 – 4500 19Y-150Y 730 – 4160

Alanine

premature 1320 – 4040 1D-31D 982 – 3055 1M-24M 676 – 6090 2Y-18Y 231 – 915 19Y-150Y 240 – 670

Citrulline

premature 240 – 1320 1D-31D 27 – 181 1M-24M 22 – 180 2Y-18Y 10 – 99 19Y-150Y 8 – 50

Alpha-Amino-N-Butyric Acid

premature 50 – 710 1D-31D 8 – 65 1M-24M 30 – 136 2Y-18Y 0 – 77 19Y-150Y 0 – 90

Valine

premature 180 – 890 1D-31D 113 – 369 1M-24M 99 – 316 2Y-18Y 58 – 143 19Y-150Y 27 – 260

Cystine

premature 480 – 1690 1D-31D 212 – 668 1M-24M 68 – 710 2Y-18Y 25 – 125 19Y-150Y 43 – 210

Cystathionine

premature 260 – 1160 1D-31D 16 – 147 1M-24M 33 – 470 2Y-18Y 0 – 26 19Y-150Y 20 – 50

Methionine

premature 500 – 1230 1D-31D 342 – 880 1M-24M 174 – 1090 2Y-18Y 16 – 114 19Y-150Y 38 – 210

Isoleucine

premature 250 – 640 1D-31D 125 – 390 1M-24M 38 – 342 2Y-18Y 10 – 126 19Y-150Y 16 – 180

Leucine

premature 190 – 790 1D-31D 78 – 195 1M-24M 70 – 570 2Y-18Y 30 – 500 19Y-150Y 30 – 150

Tyrosine

premature 1090 – 6780 1D-31D 220 – 1650 1M-24M 333 – 1550 2Y-18Y 122 – 517 19Y-150Y 90 – 290

Phenylalanine

premature 920 – 2280 1D-31D 91 – 457 1M-24M 175 – 1340 2Y-18Y 61 – 314 19Y-150Y 51 – 250

Beta-Alanine

premature 1020 – 3500 1D-31D 25 – 288 1M-24M 0 – 297 2Y-18Y 0 – 65 19Y-150Y 0 – 130

Beta-Aminoisobutyric Acid

premature 50 – 470 1D-31D 421 – 3133 1M-24M 802 – 4160 2Y-18Y 291 – 1482 19Y-150Y 10 – 510

Ornithine

premature 260 – 3350 1D-31D 118 – 554 1M-24M 55 – 364 2Y-18Y 31 – 91 19Y-150Y 20 – 80

Lysine

premature 1860 – 15460 1D-31D 270 – 1850 1M-24M 189 – 850 2Y-18Y 153 – 634 19Y-150Y 145 – 634

1-Methylhistidine

premature 170 – 880 1D-31D 96 – 499 1M-24M 106 – 1275 2Y-18Y 170 – 1688 19Y-150Y 170 – 1680

Histidine

premature 1240 – 7240 n 1D-31D 908 – 2528 1M-24M 815 – 7090 2Y-18Y 644 – 2430 19Y-150Y 460 – 1430

3-Methylhistidine

premature 420 – 1340 1D-31D 189 – 680 1M-24M 147 – 391 2Y-18Y 182 – 365 19Y-150Y 160 – 520

Carnosine

premature 260 – 370 1D-31D 97 – 665 1M-24M 203 – 635 2Y-18Y 72 – 402 19Y-150Y 10 – 90

Arginine

premature 190 – 820 1D-31D 35 – 214 1M-24M 38 – 165 2Y-18Y 31 – 109 19Y-150Y 10 – 90

When abnormal results are detected, a detailed interpretation is given, including an overview of the results and of their significance, a correlation to available clinical information, elements of differential diagnosis, recommendations for additional biochemical testing and in vitro confirmatory studies (enzyme assay, molecular analysis),name and phone number of key contacts who may provide these studies at Mayo or elsewhere, and a phone number to reach one of the laboratory directors in case the referring physician has additional questions.

Performed at SmithKline Beecham, Van Nuys CA Effective until 18Sep94: Reference ranges issued with each report.



Test Name: Amino Acids, Qualitative, Plasma

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Amino Acids, Qualitative, Plasma

Performed at Mayo Medical Labs, Rochester MN Effective 11Feb05 – present:

Reported as negative or positive with an interpretive report provided.



Test Name: Amino Acids, Quantitative (1-5 specific)

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: AA **Reference Ranges:**

Amino Acids, Quantitative (1-5 specific) umol/L (SI = umol/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 12Jun02 - present:

Reference ranges are reported with the specific amino acid(s) ordered.



Test Name: Aminolevulinic Acid, Urine
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Delta ALA

Reference Ranges:

Aminolevulinic Acid mg/dL (SI: $\mu mol/d = 7.626 \text{ x mg/24hr}$) Aminolevulinic Acid mg/24hr (SI: $\mu mol/L = 76 \text{ x mg/dL}$) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - present: 0-8 months not established

9M - 5Y $0.00 - 0.66 \frac{mg}{dL}$ >= 6Y $1.5 - 7.5 \frac{mg}{24hr}$

Performed at SmithKline Beecham, Van Nuys Ca Effective 01Jan79 - 18Sep94: 1.3 – 7.0 mg/24hr



Test Name: Amiodarone

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Desmethylamiodarone

Reference Ranges:

Amiodarone mg/L (SI: μ mol/L = 1.55 x mg/L) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - present:

Amiodarone

Therapeutic concentration: 1.5-2.5Toxic concentration: > or = 3.5

Desethylamiodarone

Therapeutic concentration: 1.5-2.5Toxic concentration: > or = 3.5

Performed at SmithKline Beecham, Van Nuys CA Effective 02Apr92 - 18Sep94:

Therapeutic: 0.5 - 2.5

Toxic: >2.5

Performed at MetPath Labs, Rockville MD Effective until 01Apr92:

Therapeutic 1.0 - 2.5

Toxic not established



Test Name: Amitriptyline / Nortriptyline

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Aventyl, Pamelor, Elavil, Tricyclic

Antidepressants

Reference Ranges:

Amitriptyline / Nortriptyline $\mu g/L$ (SI: nmol/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 - present:

Total (Amitrip + Nortrip) $\mu g/L$ (SI: nmol/L = 3.7 x $\mu g/L$)

Therapeutic: 75 - 225 Toxic: >=500

Amitriptyline $\mu g/L$ (SI: nmol/L = 3.61 x $\mu g/L$)

Therapeutic: not defined Toxic: >=500

Nortriptyline $\mu g/L$ (SI: nmol/L = 3.8 x $\mu g/L$)

Therapeutic: 50 - 150 Toxic: >=500

Interpretation:

The clinical effect desired will not be achieved if the blood concentration is <75 ng/mL. Toxicity is associated with blood concentration >500 ng/mL.

Nortriptyline is unique among the antidepressants in that its blood level exhibits the classical "therapeutic window" effect. The optimal effectiveness of the drug occurs between 50-150 ng/mL. When the concentration is <50 ng/mL, the drug exhibits little effectiveness. When the drug concentration exceeds 150 ng/mL, nortriptyline will actually induce depression. Thus, therapeutic monitoring to ensure that the blood level is within the "therapeutic window" is CRITICAL to accomplish successful treatment with this drug:

Performed at American Medical Labs, Chantilly VA

Effective 02Apr92 - 30May95:

Amitriptyline $\mu g/L$ (SI: nmol/L = 3.61 x $\mu g/L$)

Therapeutic: 120 - 250 Toxic: >500

Nortriptyline $\mu g/L$ (SI: nmol/L = 3.8 x $\mu g/L$)

Therapeutic: 50 - 150 Toxic: >=500

Performed at Metpath Labs, Rockville MD

Effective until 02Apr92:

Amitriptyline ng/mL (SI: nmol/L = 3.61 x ng/mL) Therapeutic: 120 - 250

Toxic: >500

Nortriptyline ng/mL (SI: nmol/L = 3.8 x ng/mL) Therapeutic: 50 - 150

Toxic: >=500



Test Name: Ammonia

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Ammonia μmol/L (SI: μmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 17Aug79 - present: 11 - 35

Test Name: Amylase Fractions **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Pancreatic, Macroamylase

Reference Ranges:

Amylase Fractions

Pancreatic Amylase U/L (SI: U/L)

Performed at Mayo Medical Labs, Rochester MN Effective 07Feb00 - present: >=15Y 11-54 Effective 19Sep94 - 06Feb00: >=15Y 0-43

Performed at SmithKline Beecham, Van Nuys CA Effective 09Sep90 - 18Sep94: 7 – 54

Macroamylase

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - present: none detected

Total Amylase *U/L* (SI: U/L)

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - present:

0M-23M 0-265 2Y-3Y 31-203

4Y-5Y 11 – 259

6Y-7Y 22 – 150

8Y-9Y 14 – 198

10Y-11Y 11 – 119

12Y-13Y 36-160 14Y-15Y 29-173

 $16Y-17Y \quad 12-188$

Effective 16Jul01 - present: >=18Y 26 - 102 Effective 19Sep94 - 15Jul01: >=18Y 35–115

Performed at SmithKline Beecham, Van Nuys CA Effective 09Sep90 to 18Sep94: 30 – 170

Salivary Amylase *U/L* (Test no longer performed)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 01Mar98:

Salivary $\geq 15Y \quad 0 - 76$ (Salivary discontinued 02 Mar98)

Performed at SmithKline Beecham, Van Nuys CA Effective 09Sep90 - 18Sep94: 12 – 137



Test Name: Amylase, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Amylase, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 - present: No ranges available



Test Name: Amylase, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Amylase, Serum *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 10Apr02 - present: 36 – 143 Effective 22Jul98 - 09Apr02: 21 – 106 Effective 11Dec80 - 21Jul98: 18 – 93 Effective 01Jan79 - 10Dec80: 5 – 25



Test Name: Amylase, Urine Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer offered as of January 10, 2001

Amylase Excretion *U/24hr* (SI: U/d = 1 x U/24hr) Performed at National Institutes of Health, Bethesda MD Effective 06Mar99 - 10Jan01:

24hr 59 - 401 0-23-hr 2 - 19 *U/hr*

Effective 11Dec80 - 05Mar99:

24hr 16 - 325

Amylase Urine Concentration *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 06Mar99 - 10Jan01: Not established

Effective 01Jan79 - 02Jul96: 0 - 70



Test Name: Amylase/Creatinine Ratio **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer offered as of January 10, 2001

Amylase/Creatinine Ratio % (SI: Frac = 0.01 x %) Performed at National Institutes of Health, Bethesda MD

Effective 03Mar99 – 10Jan01: 1.3-4.3 %



Test Name: Anaerobic Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Anaerobic Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No anaerobic bacteria isolated



Test Name: Anaerobic Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Anaerobic Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No anaerobic bacteria isolated



Test Name: Anaerobic Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Anaerobic Culture



Test Name: Anaerobic Culture **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Synovial Fluid

Reference Ranges:

Anaerobic Culture



Test Name: Anaerobic Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Anaerobic Culture



Test Name: Anaerobic Culture **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Paracentesis

Reference Ranges:

Anaerobic Culture



Test Name: Anaerobic Culture **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Thoracentesis

Reference Ranges:

Anaerobic Culture



Test Name: Anaerobic Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Anaerobic Culture



Test Name: Anaerobic Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Anaerobic Culture



Test Name: Anaerobic Culture Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Anaerobic Culture

Test Name: Androstenedione **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Androstenedione ng/dL (SI: nmol/L = 0.0349 x ng/dL)

Effective 19Apr05 - present:

Adult Normals: Male: 40-150 ng/dL Female: 30-200 ng/dL

Pediatric Normals: Source Pediatric Reference Ranges 4th Edition

Premature Infants 26-28 w, day 4: 92 - 282 ng/dL Premature Infants 31-35 w, day 4: 80 - 446 ng/dL

Full Term Infants 1-7 d: 20 - 290 ng/dLFull Term Infants 1-12 mo.: 6 - 68 ng/dL

Tanner Stage	Age(yrs)	Male	Age(yrs)	Female
1	<9.8	8 - 50	< 9.2	8 - 50
2	9.8 - 14.5	31 - 65	9.2 - 13.7	42 - 100
3	10.7 - 15.4	50 - 100	10.0 - 14.4	80 - 190
4	11.8 - 16.2	48 - 140	10.7 - 15.6	77 - 225
5	12.8 - 17.3	65 - 210	11.8 - 18.6	80 - 240

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 18Apr05:

20 - 310

MALE

$$\begin{array}{cccc} 0Y-7Y & 10-20 \\ 8Y-9Y & 10-30 \\ 10Y-11Y & 30-70 \\ 12Y-13Y & 40-100 \\ 14Y-17Y & 50-140 \\ >=18Y & 30-310 \\ FEMALE \\ 0Y-7Y & 10-30 \\ 8Y-9Y & 20-50 \\ 10Y-11Y & 40-100 \\ 12Y-13Y & 80-190 \\ 14Y-17Y & 70-220 \\ \end{array}$$

>=18Y

Performed at SmithKline Beecham, Van Nuys CA

Effective 06Feb89 - 18Sep94:

Male 65 - 270 Female 65 - 270 Prepuberty <60 Postmenopause <180

Performed at SmithKline Beecham, Van Nuys CA

Effective 25Mar88 - 05Feb89:

Male 70 - 205 Female 80 - 300 Prepuberty 8 - 50 Postmenopause 30 - 140



Test Name: Angiotensin Converting Enzyme

Department: Laboratory Medicine

Lab Area: Chemistry
Synonyms: ACE

Reference Ranges:

Angiotensin Converting Enzyme *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug01 – present: Adults 16.0 - 52.0

Performed at Mayo Medical Labs, Rochester MN

Effective 07Feb00 - 31Jul01: 7.0 - 46.0

Effective 19Sep94 – 06Feb00:

<1Y 10.9 – 42.1

1Y-2Y 9.4 – 36.0

3Y-4Y 7.9-29.8

5Y-9Y 9.6 – 35.4

10Y-12Y 10.0-37.0

13Y-16Y 9.0 – 33.4

 $17Y-19Y \quad 7.2-26.6$

>=20Y 6.1 – 21.1

Performed at SmithKline Beecham, Van Nuys CA

Effective 23Jul88 – 18Sep94: Male/Female 8 - 52

Effective 01Oct87 - 18Sep94: Female 10 - 30

Effective 01Oct87 – 22Jul88: Male 12 - 36



Test Name: Angiotensin I
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Angiotensin I pg/mL (SI: ng/L = 1.0 x pg/mL) Performed at InterScience Institute, Inglewood CA

Effective 24Sep97 - present: 0.0 - 25.0

Performed at Robert Woods-Johnson Medical School, New Brunswick NJ

Effective 06Jul95 - 23Sep97: 11 - 88



Test Name: Angiotensin II
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Angiotensin II pg/mL (SI: ng/L = 1.0 x pg/mL) Performed at InterScience Institute, Inglewood CA

Effective 24Sep97 - present: 10 - 60

Performed at Robert Woods-Johnson Medical School, New Brunswick NJ Effective 06Jul95 - 23Sep97: No ranges available



Test Name: Ansamycin LM 427 **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Ansamycin LM 427

Performed at Centers for Disease Control, Atlanta GA No longer requested as of January 2000.



Test Name: Ansamysin 5.0

Department: Lab Area: Synonyms:

Reference Ranges:

Ansamysin 5.0

Performed at Centers for Disease Control, Atlanta GA No longer requested as of January 2000.



Test Name: Anti-21 hydroxylase Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Anti-Adrenal 21 hydroxylase

Reference Ranges:

Anti-21- hydroxylase Antibody U/mL

Performed at Mayo Medical Labs, Rochester MN Effective 04Nov04 - present: 0.0-0.9

Performed at Esoterix Endocrinology, Calabasas Hills CA

Effective 14May03 – 03Nov04: 0.0 - 0.9

Ranges represent adult values.

2.5% of healthy individuals exhibit values up to 3.7 U/mL.



Test Name: Anti-Adrenal Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Order Anti-21 Hydroxylase Antibody instead

Anti-Adrenal Antibody titer

Performed at Focus Technologies, Cypress CA

Effective 14May03 – 22Dec04:

<1:4 Antibody not detected

>=1:4 Antibody detected

Adrenal antibodies are present in 60% of patients with idiopathic adrenocortical insufficiency (Addison's disease), 5% of patients with tuberculous Addison's disease, and 1-5% of patients with other autoimmune endocrine disease.



Test Name: Anti-Cardiolipin Antibody IgG and IgM

Department: Laboratory Medicine

Lab Area: Immunology

Synonyms: ACA **Reference Ranges:**

Anti-Cardiolipin Antibody, IgG and IgM

Performed at National Institutes of Health, Bethesda MD

Effective 18Feb05 – present:

Cardiolipin IgG GPL

Negative: <15Indeterminate: 15-20

Low to medium positive: 21 - 80

High positive: >80

Cardiolipin IgM MPL

Negative: <20 Indeterminate: 20 – 25

Low to medium positive: 26 - 80

High positive: >80

Effective 10Jan01 – 17Feb05:

Cardiolipin IgG GPL

Negative: <12 Indeterminate: 12 – 20

Low to medium positive: 20 - 80

High positive: >80

Cardiolipin IgM MPL

Negative: <18 Indeterminate: 18 – 25

Low to medium positive: 26 - 80

High positive: >80

Effective 01Sep93 – 09Jan01:

IgG negative: <12 GPL IgM negative: <10 MPL



Test Name: Anti-Centromere Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: CREST, HEp-2, ACA

Reference Ranges:

Anti-Centromere Antibody

Performed at Mayo Medical Labs, Rochester MN

Effective 18Sep01 – present: Negative



Test Name: Anti-CMV Antibody IgG and IgM

Department: Laboratory Medicine

Lab Area: Immunology **Synonyms:** Cytomegalovirus

Reference Ranges:

Anti-CMV Antibody IgG and IgM units

Performed at National Institutes of Health, Bethesda MD

Effective 09Mar01 – present:

Negative: <=0.900 Equivocal: 0.901-1.099 Positive: >=1.100

Effective 19Sep94 – 08Mar01:

Negative: <=0.900 Equivocal: 0.901 – 0.999 Positive: >=1.000

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Sep90 – 18Sep94:

Negative: <=0.900 Equivocal: 0.901 – 0.999 Positive: >=1.000

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Anti-Cyclic Citrullinated Peptide

Department: Laboratory Medicine

Lab Area: Immunology
Synonyms: Anti-CCP

Reference Ranges:

Anti-Cyclic Citrullinated Peptide Units

Performed at National Institutes of Health, Bethesda MD

Effective 08Oct03 – present:

Negative <20 Weak Positive 20-39 Positive >=40

Results obtained with INOVA kit may not be interchanged with different manufacturer assays.



Test Name: Anti-DNA Antibody Laboratory Medicine

Lab Area: Immunology Synonyms: dsDNA

Reference Ranges:

Anti-DNA Antibody IU

Performed at National Institutes of Health, Bethesda MD

Effective 10Oct89 - present: Negative: < 25 Borderline Positive: 25-30

Low Positive: 30-60
Positive: 60-200
Strongly Positive: > 200

Performed at American Medical Labs, Chantilly VA

Effective 12Jun85 – 09Oct89: Negative



Test Name: Anti-dsDNA Antibody **Department:** Laboratory Medicine

Lab Area: Immunology **Synonyms:** double-stranded

Reference Ranges:

Anti-dsDNA Antibody IU

Performed at National Institutes of Health, Bethesda MD

Effective 19Sep01 – present: Negative: < 25 Borderline Positive: 25-30

Low Positive: 30-60
Positive: 60-200
Strongly Positive: > 200

Effective 10Oct89 – 18Sep01:

Negative: <10 titer

Performed at American Medical Labs, Chantilly VA

Effective until 09Oct89: No ranges available



Test Name: Anti-EBV VCA IgG **Department:** Laboratory Medicine

Lab Area: Immunology **Synonyms:** Epstein-Barr Virus

Reference Ranges:

Anti-EBV VCA IgG titer

Performed at National Institutes of Health, Bethesda MD

Effective 15May92 – present:

Negative: < 10

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 14May92: Negative: < 10

Performed at American Medical Labs, Chantilly VA

Effective until 31Aug90: Negative: < 10



Test Name: Anti-HDV

Department: Transfusion Medicine

Lab Area: Hepatitis/HIV

Synonyms: Antibody to hepatitis D (delta) virus

Reference Ranges:

Anti-HDV

Performed at Mayo Medical Labs, Rochester MN Effective 14Mar01 – present: Negative



Test Name: Anti-Histone Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Anti-Histone Antibody units (SI: units)

Performed at Mayo Medical Labs, Rochester MN

Effective 13Aug97 - present:

Negative <1.0Borderline 1-1.5Positive >1.5



Test Name: Anti-H. Influenzae IgG Antibody

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:HFlu, Haemophilus

Reference Ranges:

Anti-H. Influenzae IgG Antibody $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL)

Performed at Focus Technologies, Cypress CA

Effective 06Mar99 - present: Nonprotective ab level: <0.15

Indeterminate for protective ab 0.2 - 0.99

Protective ab level >=1.0

A four-fold increase in the polyribosylribitol phosphate (PRP) IgG Ab level between pre-vaccination and post-vaccination sera is considered evidence of effective immunization.



Test Name: Anti-JO-1 Antibody **Department:** Laboratory Medicine

Lab Area: Immunology **Synonyms:** Jo-1 Ab

Reference Ranges:

Anti-JO-1 Antibody EU

Performed at National Institutes of Health, Bethesda MD

Effective 19Sep01 – present: Negative: < 20 Borderline Positive: 20 – 24 Positive: >= 25

Effective 13Jun85 - 18Sep01: Negative

Performed at American Medical Labs, Chantilly VA Effective until 12Jun85: No ranges available



Test Name: Anti-MAG Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: MAG, Myelin Associated Glycoprotein

Reference Ranges:

Anti-MAG Antibody

Performed at Focus Technologies, Cypress CA

Effective 14 Apr04 – present:

Reference Values:

SGPG IgM Antibody <1:400 MAG IgM Antibody <16 U/mL

MAG Antibody, Western Blot: Negative

Interpretive Criteria:

SGPG IgM Antibody <1:400 Antibody Not Detected

> or = 1:400 Antibody detected

MAG IgM Antibody <16 Antibody Not Detected

> or = 16 Antibody Detected

MAG Ab, Western Blot

Interpretive Criteria: Negative - Antibody Not Detected

Positive - Antibody Detected

This MAG Western blot assay was performed as a reflex test due to a positive MAG antibody

dual ELISA.



Test Name: Anti-Myeloperoxidase Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: MPO **Reference Ranges:**

Anti-Myeloperoxidase Antibody EU/mL (SI: EU/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 18Feb03 – present:

<= 5.0 Negative 5.1-14.9 Equivocal

>=15.0 Positive

Effective 21Aug96 – 12Feb03:

0.0 - 5.0 Negative

5.1 - 400 Positive

Effective 08Aug95 - 06Aug96: <= 10 units



Test Name: Anti-Neuronal Nuclear Antibody-1

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: ANNA-1, Hu

Reference Ranges:

No longer performed as a single test as of 4/13//04. Part of Paraneoplastic Panel starting 4/14/04.

Anti-Neuronal Nuclear Antibody-1 titer

Performed at Mayo Medical Labs, Rochester MN Effective 11Mar98 - 13Apr04: Negative at <1:60



Test Name: Anti-Neuronal Nuclear Antibody-2

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: ANNA-2, Ri

Reference Ranges:

No longer performed as a single test as of 4/13//04. Part of Paraneoplastic Panel starting 4/14/04.

Anti-Neuronal Nuclear Antibody-2 titer

Performed at Mayo Medical Labs, Rochester MN Effective 11Mar98 - 13Apr04: Negative at <1:60



Test Name: Anti-Neuronal Nuclear Antibody Type 2, CSF

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: ANNA-II, Ri

Reference Ranges:

Anti-Neuronal Nuclear Antibody-2, CSF titer

Performed at Mayo Medical Labs, Rochester MN Effective 08Mar95 - present: Negative at <1:2



Test Name: Anti-Neutrophil Cytoplasmic Antibody

Department: Laboratory Medicine

Lab Area: Immunology

Synonyms: ANCA

Reference Ranges:

Anti-Neutrophil Cytoplasmic Antibody titer

Performed at National Institutes of Health, Bethesda MD

Effective 12Jun85 – present:

C-ANCA Screen Negative: < 20

Titer performed if positive

P-ANCA Screen Negative: < 20



Test Name: Anti-Nuclear Antibody **Department:** Laboratory Medicine

Lab Area: Immunology

Synonyms: ANA

Reference Ranges:

Anti-Nuclear Antibody EU

Performed at National Institutes of Health, Bethesda MD

Effective19Sep01 – present:

Negative: < 1.0 Positive: >= 1.0 Strong Positive: >= 3.0

Effective 10Dec89 – 18Sep01:

Negative: < 80 titer

Performed at American Medical Labs, Chantilly VA Effective 02Jul80 – 09Dec89: Negative < 80 titer

Performed at SmithKline Beecham, Van Nuys CA Effective until 01Jul80: Negative < 80 titer



Test Name: Anti-SM Antibody Laboratory Medicine

Lab Area: Immunology **Synonyms:** Smith Antibody

Reference Ranges:

Anti-SM Antibody EU

Performed at National Institutes of Health, Bethesda MD

Effective 19Sep01 – present:

Negative: < 20

Borderline Positive: 20 - 24

Positive: >= 25

Effective 13June85 – 18Sep01: Negative

Performed at American Medical Labs, Chantilly VA Effective until 12Jun85: No ranges available



Test Name: Anti-Smooth Muscle Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: SMA **Reference Ranges:**

Anti-Smooth Muscle Antibody titer

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present:

None detected <1:20 Weak positive 1:20 - 1:40 Suggestive of Chronic Hepatitis >=1:80

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 – 18Sep94:

None detected <1:20 Weak positive 1:20 - 1:40 Suggestive of Chronic Hepatitis >=1:80

Effective 03Jan89 – 19May91: Negative at 1:40

Effective 01Oct87 – 02Jan89: 0 titer



Test Name: Anti-SmRNP Antibody **Department:** Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

Anti-SmRNP Antibody EU

Performed at National Institutes of Health, Bethesda MD

Effective 19Sep01 – present: Negative: < 20 Borderline Positive: 20 – 24 Positive: >= 25

Effective 13Jun85 – 18Sep01: Negative

Performed at American Medical Labs, Chantilly VA Effective until 12Jun85: No ranges available



Test Name: Anti-SSA Antibody Laboratory Medicine

Lab Area: Immunology

Synonyms: RO Autoantibodies, Anti-Ro

Reference Ranges:

Anti-SSA Antibody EU

Performed at National Institutes of Health, Bethesda MD

Effective 19Sep01 – present: Negative: < 20 Borderline Positive: 20 – 24 Positive: >= 25

Effective 13Jun85 – 18Sep01: Negative

Performed at American Medical Labs, Chantilly VA Effective until 12Jun85: No ranges available



Test Name: Anti-SSB Antibody **Department:** Laboratory Medicine

Lab Area: Immunology
Synonyms: Anti-La

Reference Ranges:

Anti-SSB Antibody EU

Performed at National Institutes of Health, Bethesda MD

Effective 19Sep01 – present: Negative: < 20 Borderline Positive: 20 – 24 Positive: >= 25

Effective 13Jun85 - 18Sep01: Negative

Performed at American Medical Labs, Chantilly VA Effective until 12Jun85: No ranges available



Test Name: Anti-Striated Muscle Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Anti-Striated Muscle Antibody titer

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - present: Negative at <1:60

Performed at SmithKline Beecham, Van Nuys CA Effective 02Dec92 - 18Sep94: none detected

Test Name: Anti-Thyroid Panel Laboratory Medicine

Lab Area: Immunology Synonyms: TG, TPO

Reference Ranges:

Anti-Thyroid Panel

Anti-Thyroglobulin and Anti-Thyroperoxidase

Performed at National Institutes of Health, Bethesda MD

Effective 06Jan05 – present:

The patients' Index Values are interpreted as follows:

<= 0.90 Negative No detectable antibody by the ELISA test

0.91 - 1.09 Equivocal Repeat if clinically indicated

> = 1.10 Positive Indicates presence of detectable antibody by the

ELISA test

Performed at National Institutes of Health, Bethesda MD

Anti-Thyroglobulin and Anti-Thyroperoxidase Effective 03Dec97 – 05Jan05: *IU/mL* (SI: IU/mL)

Male: 0 - 59 Female: 0 - 99

Effective 10Oct89 – 02Dec97: < 10 titer

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jul85 - 09Sep89: 0 - 9 *titer* Effective 01Jan79 - 30Jun85: 0 - 100 *titer*

Anti-Thyroperoxidase *IU/mL* (SI: IU/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 03Dec97 – present:

Male: 0 - 59 Female: 0 - 99

Effective 02Oct96 - 02Dec97: IU/mL (SI: kU/mL = IU/mL)

Negative: 0 - 20 Borderline: 21 - 64 Positive: >= 65

Performed at Mayo Medical Labs, Rochester MN

Effective 07Dec94 - 01Oct96: $0.0 - 1.9 \ U/mL$ (SI: kU/mL = U/mL)



Test Name: Anti-Varicella Zoster IgG **Department:** Laboratory Medicine

Lab Area: Immunology Synonyms: VZV IgG Ab

Reference Ranges:

Anti-Varicella Zoster IgG units

Performed at National Institutes of Health, Bethesda MD

Effective 11Aug97 – present:

Negative: <= 0.900 Equivocal: 0.901 – 1.099 Positive: >= 1.100

Effective 18Oct95 – 10Aug97:

Negative: <= 0.90 Equivocal: 0.91 – 1.09 Positive: >= 1.10



Test Name: Anti Xa Low Molecular Weight Heparin

Department: Laboratory Medicine

Lab Area: Hematology Synonyms: LMWH

Reference Ranges:

Anti Xa Low Molecular Weight Heparin IU/mL

Performed at National Institutes of Health, Bethesda MD

Effective 12Jun02 – present: 0.5 - 1.2



Test Name: Anti Xa Unfractionated Heparin

Department: Laboratory Medicine

Lab Area: Hematology
Synonyms: UNFX Hep, UFXH

Reference Ranges:

Anti Xa Unfractionated Heparin IU/mL

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: 0.3 - 0.7



Test Name: Antithrombin III **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms: AT III

Reference Ranges:

Antithrombin III

Performed at National Institutes of Health, Bethesda MD

Effective 11Mar98 – present: 75 - 127 %



Test Name: Apolipoprotein Panel Laboratory Medicine

Lab Area: Immunology

Synonyms: APO A-I, APO B, B/A-I

Reference Ranges:

APOLIPOPROTEIN Panel mg/dL (SI: $g/L = 0.01 \times mg/dL$)

Effective 11Jun03 – present:

APO A-1

Male: 91 - 160Female: 105 - 194

APO B

Male: 54 - 129Female: 56 - 127

APO B/A-1

Male: 0.40 - 1.20 ratio Female: 0.35 - 1.00 ratio

Effective 06Oct93 - 10Jun03:

APO A-1

Male: 90 - 203Female: 106 - 244

APO B/A-1

Male: 0.45 - 1.71 ratio Female: 0.39 - 1.6 ratio

Effective 05Oct94 - 10Jun03:

APO B

Male: 48 - 164Female: 53 - 173

APO A-1

Effective 05Mar92 - 05Oct93:

Male: 92 – 184 Female: 101 – 216

APO B

Effective 06Oct93 - 04Oct94:

Male: 58 - 200Female: 65 - 211

03/29/2005 Page 119 Effective 05Mar92 - 05Oct93:

Male: 63 - 165 Female: 61 - 159

APO B/A-1

Effective 05Mar92 - 05Oct93:

Male: 0.42 - 1.52 ratio Female: 0.41 - 1.21 ratio



Test Name: Arsenic, Fluid
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Arsenic, Fluid

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - present

Performed at SmithKline Beecham, Van Nuys CA Effective 05Jan88 - 18Sep94 Effective 01Jan79 - 04Jan88: $\mu g/100g$ (SI: nmol/g = 0.133 x $\mu g/g$)



Test Name: Arsenic, Hair or Nails
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Arsenic, Hair or Nails $\mu g/g$ (SI: nmol/g = 13.3 x $\mu g/g$)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: Arsenic, Hair: 0.0 - 0.9Arsenic, Nails: 0.0 - 0.9

Performed at SmithKline Beecham, Van Nuys CA

Effective 05Jan88 - 18Sep94: Arsenic, Hair: 0.0 - 4.0 Arsenic, Nails: 0.03 - 0.32

Effective 01Jan79 - 04Jan88: $\mu g/100g$ (SI: nmol/g = 0.133 x $\mu g/g$)

Arsenic, Hair: 0 - 64 Arsenic, Nails: 90 - 180



Test Name: Arsenic, Urine
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Heavy Metals

Reference Ranges:

Arsenic, Urine $\mu g/24hr$ (SI: μ mol/d x 0.0133 = μ g/24hr)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: Normal concentration: <120 Toxic concentration: >= 5000

Reference values are for a 24 hr collection. Specimens collected for other than a 24 hr time

period are reported in units of µg/L for which

reference values are not established.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Jan79 - 18Sep94 $0 - 100 \,\mu\text{g/L}$ (SI: $\mu\text{mol/L} \times 0.0133 = \mu\text{g/L}$)



Test Name: Arylsulfatase A, Fibroblasts

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Arylsulfatase A, Fibroblasts *U/g of cellular protein* Performed at Mayo Medical Labs, Rochester MN

Efffective 09Oct96 - present: 2.28 – 15.74



Test Name: Arylsulfatase A, Urine **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Arylsulfatase A, Urine *U/L* (SI: U/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: >1

Performed at SmithKline Beecham, Van Nuys CA

Effective 07Jul93 - 18Sep94: $3.8 - 22.0 \mu g/mL/hr$ (SI: mg/L/hr = $1.0 \times \mu g/mL/hr$)



Test Name: Ascaris

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Ascaris

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94

Performed at American Medical Labs, Chantilly VA Effective 02Mar86 - 31Aug90

Performed at Centers for Disease Control, Atlanta GA Effective until 01Mar86



Test Name: Aspartate Amino-Transferase

Department: Laboratory Medicine

Lab Area: Chemistry
Synonyms: AST, SGOT

Reference Ranges:

Aspartate Amino-Transferase *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 - present: 9 - 34 Effective 01Jan79 - 30Nov88: 8 - 31



Test Name: Aspergillus Ab, CSF **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Flavus, Fumigatus, Niger,

Reference Ranges:

Aspergillus Ab, CSF

Aspergillus Flavus, CSF, Agar Gel Aspergillus Fumigatus, CSF, Agar Gel Aspergillus Niger, CSF, Agar Gel

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 01Mar98

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18sep94

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Aspergillus Fumigatus, IgG Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Taken off Web site 6/15/2004 per Microbiology Department (Dr. Witebsky) as obsolete test. No longer sent out as of 7/14/2004.

Aspergillus Fumigatus, IgG Antibody mg/L (SI: mg/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 12Jun01 – 14Jul04: 0.0 – 110.0

Interpretation:

Elevated concentrations of IgG antibodies to Aspergillus fumigatus are consistent with the diagnosis of aspergillosis, either invasive disease or HP (2).

Aspergillus Ab, ID (old method) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – 11Jun01: Titered if positive

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: Titered if positive

Performed at American Medical Labs, Chantilly VA Effective Until 31Aug90: Titered if positive



Test Name: Atrial Natriuretic Factor
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: ANF, ANP, Peptide

Reference Ranges:

Atrial Natriuretic Factor pg/mL (SI: ng/L = 1.0 x pg/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 20 - 77Effective 03Nov93 - 18Sep94: 9 - 45



Test Name: Autopsy Culture Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Autopsy Culture

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: No growth

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: B-K virus Quantitative PCR

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** BKV PCR

Reference Ranges:

B-K virus Quantitative PCR

Performed at National Institutes of Health, Bethesda MD Effective 10Apr02 – present:

Negative for B-K virus or quantitative calculated copies of B-K virus genome per mililiter of plasma.



Test Name: B-K Virus Quantitiative PCR

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** BKV PCR

Reference Ranges:

B-K virus Quantitative PCR

Performed at National Institutes of Health, Bethesda MD

Effective 10Apr02 – present:

Negative for B-K virus or quantitative calculated copies of B-K virus genome per mililiter of urine.



Test Name: Department: Lab Area:Babesia Antibody
Laboratory Medicine
Mayo Medical Labs

Synonyms: Microti

Reference Ranges:

Babesia Antibody titer

Performed at Mayo Medical Labs, Rochester MN

Effective 08May96 - present: <= 1:64



Test Name: Department: Lab Area: Synonyms:Bartonella Antibody
Laboratory Medicine
Mayo Medical Labs
Henselae, Quintana

Reference Ranges:

Bartonella Antibody titer

Performed at Mayo Medical Labs, Rochester MN

Effective 06Mar99 - present:

Bartonella Henselae IgG 0 – 127

Bartonella Henselae IgM 0-19

Bartonella Quintana IgG 0 – 127

Bartonella Quintana IgM 0-19



Test Name: Bartonella Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: Cat-scratch disease

Reference Ranges:

Bartonella Culture

Performed at National Institutes of Health, Bethesda MD Effective 06Mar94 – present: No Bartonella isolated



Test Name: Bartonella Culture Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Bartonella Culture

Performed at National Institutes of Health, Bethesda MD Effective 06Mar94 – present: No Bartonella isolated



Test Name: Beta-2-Microglobulin Laboratory Medicine

Lab Area: Chemistry
Synonyms: B2M
Reference Ranges:

Beta-2-Microglobulin mg/L (SI: mg/L)

Performed at the National Institutes of Health, Bethesda MD

Effective 13Oct99 – present: 0.9 - 1.7 Effective 20Jan99 – 12Oct99: 1.0 - 2.6 Effective 01Sep93 – 19Jan99: 0.9 - 1.7 Effective 05Mar92 – 31Aug93: 0.8 - 2.0 Effective 02May91 - 04Mar92: 0.0 - 2.9

Performed at SmithKline Beecham, Van Nuys CA

Effective 25Aug88 - 01May91: 0.0 - 2.9



Test Name: Beta-2-Microglobulin, Urine

Department: Laboratory Medicine

Lab Area: Chemistry **Synonyms:** B2M

Reference Ranges:

Beta-2-Microglobulin, Urine *mg/L* (SI: mg/L)

Performed at National Institutes of Health, Bethesda MD

Effective 20Jan99 - present: 0.0 - 0.30 Effective 01Sep93 - 19Jan99: 0.0 - 0.16 Effective 02May91 - 31Aug93: 0.0 - 0.29

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Oct88 - 01May91: 0.0 - 0.29



Test Name: Beta-2 Glycoprotein I Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: B2GPI

Reference Ranges:

Beta-2 Glycoprotein I Antibody Panel (includes IgG, IgM, IgA)

Performed at Focus Technologies, Cypress CA Effective Effective 20Jun03 – present: B2GPI IgG <20 U/mL

B2GPI IgG <20 U/mL B2GPI IgM <10 U/mL B2GPI IgA <10 U/mL

INTERPRETIVE CRITERIA:

IgG <20 U/mL Antibody Not Detected >=20 U/mL Antibody Detected

IgM and IgA <10 U/mL Antibody Not Detected >=10 U/mL Antibody Detected

Effective Effective 12Feb03 – 19Jun03: INTERPRETIVE CRITERIA: <15 U/mL Antibody Not Detected >= 15 U/mL Antibody Detected

B2GPI, a phospholipid-binding protein involved in regulation of the coagulation system, binds to cardiolipin in vitro to form the antigenic complex used for detecting autoimmune cardiolipin antibodies. Such antibodies are associated with the antiphospholipid syndrome (APS), characterized by thrombosis, thrombocytopenia, and recurrent fetal loss. Recent studies have shown that cardiolipin antibodies associated with APS recognize the B2GPI component of the B2GPI-cardiolipin complex, whereas cardiolipin antibodies associated with infection (particularly syphilis) recognize the cardiolipin component. B2GPI antibodies are strongly associated with APS. Although most APS patients possess antibodies reactive in both B2GPI and cardiolipin assays, occasional APS patients may exhibit antibodies reactive only with B2GPI or only with cardiolipin.



Test Name: Beta-Galactosidase, Fibroblasts

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Beta-Galactosidase, Fibroblasts U/g of cellular protein

Performed at Mayo Medical Labs, Rochester MN

Effective 09Oct96 - present: 4.7 - 19.1

Test Name: Beta-hCG Tumor Marker
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Chorionic Gonadotropin Subunit

Reference Ranges:

Beta-hCG Tumor Marker *U/L* (SI: U/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Oct99 - present:

Male 0.0 - 0.69Female 0.0 - 0.79

Postmenopause 0 - 3.29

Effective 19Sep94 - 18Oct99:

Male 0.0 - 2.4Female 0.0 - 4.9

Postmenopause 0 - 8.9

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jul91 - 18Sep94: mIU/mL (SI: U/L = 1.0 x mIU/mL)

Male and nonpregnant Female: <5.0

Effective 31Jan90 - 30Jun91: *U/L*

Male <2.5 Female <5.0 Postmenopause <9.0

Effective 01Jul85 - 30Jun90: 0 - 4 *mIU/mL* Effective 08Nov79 - 30Jun85: 0 - 3 *mIU/mL* Effective 01Jun79 - 07Nov79: 0 - 25 *mIU/mL*



Test Name: Beta-Mannosidase, Fibroblasts

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Beta-Mannosidase, Fibroblasts nmol/mg protein/hr

Performed at University of Alabama (Metabolic Disease Center), Birmingham AL Effective 02Sep01 – present: Normal control reported with each result.

Performed at E. K. Shriver Center (Lysosomal Storage Diseases Lab), Waltham MA Effective 09Oct96 – 01Sep01: Normal control reported with each result.



Test Name: Beta-Mannosidase, Plasma **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Beta-Mannosidase, Plasma

Performed at E. K. Shriver Center (operational until Sept. 2001) Lysosomal Storage Diseases Lab, Waltham MA Effective 09Oct96 – 25Sep01: Normal control noted on report.



Test Name: Bicarbonate, Fluid **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Bicarbonate, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 - present No ranges available



Test Name: Big Endothelin Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Big Endothelin pg/mL (SI: ng/L = 1.0 x pg/mL)

Performed at Mayo Medical Labs, Cardiorenal Research Lab, Rochester MN

Effective 09Jun99 - present: 20Y-60Y 1.8 - 6.6



Test Name: Bilirubin, Direct **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Bilirubin, Direct mg/dL (SI: μ mol/L = 17.1 x mg/dL) Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 – present: 0.0 - 0.2 Effective 01Jan79 – 30Nov88: 0.0 - 0.3



Test Name: Bilirubin, Total **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Bilirubin, Total mg/dL (SI: μ mol/L = 17.1 x mg/dL) Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 – present: 0.1 - 1.0 Effective 01Jan79 – 30Nov88: 0.2 - 1.2



Test Name: Biopsy Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Biopsy Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBC's, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Department: Lab Area:Biotinidase, Serum
Laboratory Medicine
Mayo Medical Labs

Synonyms:

Reference Ranges:

Biotinidase, Serum *U/L* (SI: U/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 09Oct96 - present: 3.5 - 13.8



Test Name: Bladder Tumor Antigen, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: BTA **Reference Ranges:**

Bladder Tumor Antigen, Urine

Performed at Specialty Labs, Santa Monica CA Effective 10Nov99 - present: Negative

Performed at National Institutes of Health, Bethesda MD Effective 05Jun96 - 09Nov99: Negative



Test Name: Blastomyces Antibody, Blood or CSF

Department: Laboratory Medicine

Lab Area:

Synonyms: Blasto Yeast CF

Reference Ranges:

Blastomyces Antibody CSF, Blood or CSF

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 12Jun02

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Blastomyces Yeast Antigen, CSF

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Blastomyces Yeast Antigen, CSF

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 12Jun02

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Blood Culture Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Blood Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No growth at 7 days

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Blood Filtration for Microfilaria

Department: Laboratory Medicine

Lab Area: Microbiology
Synonyms: Microfilaria

Reference Ranges:

Blood Filtration for Microfilaria

Performed at National Institutes of Health, Bethesda MD

Effective – present: Negative for Microfilaria

Test Name: Blood Gases

Department: Laboratory Medicine

Lab Area: Chemistry Synonyms: ABG

Reference Ranges:

Blood Gases, Arterial

Performed at National Institutes of Health, Bethesda MD

Effective 25Jun97 – present:

pH arterial 7.35 – 7.45

 PCO_2 : 35 – 48 mmHg (male) (SI: kPa = 0.133 x mm Hg)

32 - 45 mmHg (female) (SI: kPa = 0.133 x mm Hg)

 pO_{2} arterial 83 – 108 mmHg (SI: kPa = 0.133 x mm Hg)

HCO₃ arterial 22 - 26 mmol/LO₃ Saturation 94.0 - 98.0 percent

Effective 01Jan79 - 24Jun97:

pH arterial 7.34 - 7.45

pCO, arterial

Male $35 - 48 \, mmHg \, (SI: kPa = 0.133 \, x \, mm \, Hg)$

Female $32 - 45 \, mmHg \, (SI: kPa = 0.133 \, x \, mm \, Hg)$

pO₂ arterial 83 - 108 mmHg (SI: kPa = 0.133 x mm Hg)

Effective 01Aug90 - 24Jun97:

HCO₃ arterial 23 - 33 mmol/L

Effective 01Jan79 - 31Jul90:

 HCO_3 arterial 23 - 33 mEq/L

Blood Gases, Venous

Effective 23Aug90 - 25Jun97:

pH Venous 7.37 - 7.45

Effective 01Jan79 - 22Aug90:

pH Venous 7.31 - 7.42

Effective 01Jan79 - 25Jun97:

pCO₂ Venous 39 - 55 mmHg (SI: kPa = 0.133 x mm Hg)

 pO_{2} Venous 30 - 50 mmHg (SI: kPa = 0.133 x mm Hg)

Effective 01Aug90 - 25Jun97: HC₃ Venous 23 - 33 *mmol/L*

Effective 01Jan79 - 31Jul90: HC_3 Venous 23 - 33 mEq/L

Test Name: Blood Gases, Venous **Department:** Laboratory Medicine

Lab Area: Chemistry
Synonyms: VBG

Reference Ranges:

Blood Gases, Venous

Performed at National Institutes of Health, Bethesda MD

Effective 25Jun97 – present: pH arterial 7.32 – 7.45

PCO₃: 38 - 50 mmHg (SI: kPa = 0.133 x mm Hg)

pO₂ venous not established mmHg (SI: kPa = 0.133 x mm Hg)

HCO₃ venous not established *mmol/L* O₂ Saturation not established *percent*

Effective 23Aug90 - 25Jun97: pH Venous 7.37 - 7.45

Effective 01Jan79 - 22Aug90: pH Venous 7.31 - 7.42

Effective 01Jan79 - 25Jun97:

pCO₂ Venous 39 - 55 mmHg (SI: kPa = 0.133 x mm Hg) pO₃ Venous 30 - 50 mmHg (SI: kPa = 0.133 x mm Hg)

Effective 01Aug90 - 25Jun97: HCO₃ Venous 23 - 33 *mmol/L*

Effective 01Jan79 - 31Jul90: HCO₃ Venous 23 - 33 *mEq/L*



Test Name: Bone Marrow

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Bone Marrow

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: Call Hematology for interpretation



Test Name: Department:Borrelia Culture CSF
Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Borrelia Culture CSF

Performed at Mayo Medical Labs, Rochester MN Effective 08May96 - 05Nov96

Performed at American Medical Labs, Chantilly VA Effective until 07May96



Test Name: Borrelia Culture, Blood **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Borrelia Culture CSF

Performed at Mayo Medical Labs, Rochester MN Effective 08May96 - 05Nov96

Performed at American Medical Labs, Chantilly VA Effective until 07May96



Test Name: Borrelia PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Lyme

Reference Ranges:

Borrelia PCR

Performed at National Institutes of Health, Bethesda MD Effective 02Oct99 - present: Negative for Borrelia by PCR

Performed at Mayo Medical Labs, Rochester MN Effective 08May96 - 01Oct99: Negative for Borrelia by PCR



Test Name: Borrelia PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Lyme

Reference Ranges:

Borrelia PCR

Performed at National Institutes of Health, Bethesda MD Effective 02Oct99 - present: Negative for Borrelia by PCR

Performed at Mayo Medical Labs, Rochester MN Effective 08May96 - 01Oct99: Negative for Borrelia by PCR



Test Name: Borrelia PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Synovial fluid, Lyme

Reference Ranges:

Borrelia PCR

Performed at National Institutes of Health, Bethesda MD Effective 02Oct99 - present: Negative for Borrelia by PCR

Performed at Mayo Medical Labs, Rochester MN Effective 08May96 - 01Oct99: Negative for Borrelia by PCR



Test Name: Brain Natriuretic Peptide
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: BNP

Reference Ranges:

Brain Natriuretic Peptide pg/mL

Performed at Mayo Medical Labs, Rochester MN Effective 10Mar04 – present:

Males:

- <= 45 years: <= 35 pg/mL
- 46 years: $\leq 36 \text{ pg/mL}$
- 47 years: <= 37 pg/mL
- 48 years: <= 38 pg/mL
- 49 years: <= 39 pg/mL
- $50 \text{ years: } \le 40 \text{ pg/mL}$
- 51 years: <= 41 pg/mL
- 52 years: <= 42 pg/mL
- 53 years: <= 43 pg/mL
- 54 years: <= 45 pg/mL
- 55 years: <= 46 pg/mL
- 56 years: <= 47 pg/mL
- 57 years: <= 48 pg/mL
- 58 years: <= 49 pg/mL
- 59 years: <= 51 pg/mL
- 60 years: <= 52 pg/mL
- 61 years: <= 53 pg/mL
- 62 years: <= 55 pg/mL
- 63 years: <= 56 pg/mL
- 64 years: <= 57 pg/mL
- 65 years: <= 59 pg/mL
- 66 years: <= 60 pg/mL
- 67 years: <= 62 pg/mL
- 68 years: <= 64 pg/mL
- 69 years: <= 65 pg/mL
- 70 years: \leq 67 pg/mL
- 71 years: <= 69 pg/mL
- 71 years. 05 pg/m2
- 72 years: <= 70 pg/mL
- 73 years: <= 72 pg/mL
- 74 years: <= 74 pg/mL
- 75 years: <= 76 pg/mL
- 76 years: <= 78 pg/mL

- 77 years: <= 80 pg/mL
- 78 years: <= 82 pg/mL
- 79 years: <= 84 pg/mL
- 80 years: <= 86 pg/mL
- 81 years: <= 88 pg/mL
- 82 years: <= 91 pg/mL
- >= 83 years: <= 93 pg/mL

Females:

- <= 45 years: <= 64 pg/mL
- 46 years: <= 66 pg/mL
- 47 years: <= 67 pg/mL
- 48 years: <= 69 pg/mL
- 49 years: <= 71 pg/mL
- 50 years: <= 73 pg/mL
- 51 years: <= 74 pg/mL
- 52 years: <= 76 pg/mL
- 53 years: <= 78 pg/mL
- 54 years: <= 80 pg/mL
- 55 years: <= 82 pg/mL
- 56 years: <= 84 pg/mL
- 57 years: <= 87 pg/mL
- 58 years: <= 89 pg/mL
- 59 years: <= 91 pg/mL
- 60 years: <= 93 pg/mL
- 61 years: <= 96 pg/mL
- 62 years: <= 98 pg/mL
- 63 years: <= 101 pg/mL
- 64 years: <= 103 pg/mL
- 65 years: <= 106 pg/mL
- 66 years: <= 109 pg/mL
- 67 years: <= 112 pg/mL
- 68 years: <= 114 pg/mL
- 69 years: <= 117 pg/mL
- 70 years: \le 120 pg/mL
- 71 years: <= 123 pg/mL
- 72 years: <= 127 pg/mL
- 73 years: <= 130 pg/mL
- 74 years: <= 133 pg/mL
- 75 years: <= 137 pg/mL
- 76 years: <= 140 pg/mL
- 77 years: <= 144 pg/mL
- 78 years: <= 147 pg/mL
- 76 years. \= 147 pg/mil
- 79 years: <= 151 pg/mL 80 years: <= 155 pg/mL
- 81 years: <= 159 pg/mL

82 years: <= 163 pg/mL >= 83 years: <=167 pg/mL



Test Name: Department: Lab Area:Bromide, Serum
Laboratory Medicine
Mayo Medical Labs

Synonyms:

Reference Ranges:

Bromide, Serum *mmol/L* (SI: mmol/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: Therapeutic: 12.5 - 25.0 Toxic: >= 37.5

(Above ranges are from Tietz, first edition)

Performed at SmithKline Beecham, Van Nuys CA

Effective 07Oct92 - 18Sep94:

Therapeutic: 9.4 - 18.7 Toxic: >15.6



Test Name: Bromsulfophthalein **Department:** Laboratory Medicine

Lab Area:

Synonyms: BSP **Reference Ranges:**

Bromsulfophthalein

Performed at SmithKline Beecham, Van Nuys CA Effective until 31Aug90: no ranges available



Test Name: Bronchial Lavage Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: BAL **Reference Ranges:**

Bronchial Lavage Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram stain: No WBCs, No organisms seen

Culture: Oropharyngeal Flora, or No growth, No Legionella isolated For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Bronchial Wash Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: BAL **Reference Ranges:**

Bronchial Wash Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram stain: No WBCs, No organisms seen

Culture: Oropharyngeal Flora, or No growth, No Legionella isolated For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Brucella Abortus Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Brucella Abortus Antibody titer

Performed at Focus Technologies, Cypress CA Effective 01Apr98 - present:

IgG: <1:160 IgM: <1:160

Effective 19Sep94 - 31Mar98: <1:80

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Brucella Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Brucella Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Brucella isolated. For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Brugia malayi PCR **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Brugia malayi PCR

Performed at National Institutes of Health, Bethesda MD Effective 15Sep99 – present: Negative for Brugia malayi by PCR



Test Name: B. Burdorferi Antibody, CSF

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs **Synonyms:** Lyme Disease

Reference Ranges:

B. Burdorferi Antibody, CSF

Performed at Focus Technologies, Cypress CA Effective 06May98 – present: IgG <1:4 titer IgM <1:1 titer

Effective 08Mar95 – 05May98: Not detected <15 units Indeterminate 15 – 20 units Weakly Positive 21 – 35 units Positive >35 units



Test Name: B. Burgdorferi Antibody, Serum EIA

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Lyme

Reference Ranges:

B. Burgdorferi Antibody, Serum EIA

Performed at New England Medical Center, Boston MA Effective 08May96 - present



Test Name: C-Peptide

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

C-Peptide ng/mL (SI: nmol/L = 0.33 x ng/mL)

Performed at the National Institutes of Health, Bethesda MD

Effective 08Mar00 - present: 0.9 - 4

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sept94 - 07Mar00: $170 - 900 \, pmol/L \, (SI: nmol/L = 0.001 \, x \, pmol/L)$

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 - 18Sept94: 0.8 - 4 *ng/mL*

Performed at SmithKline Beecham, Van Nuys CA

Effective 25Mar88 - 19May91: 0.5 - 3 *ng/mL*



Test Name: C-Peptide, Sensitive Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

C-Peptide, Sensitive ng/mL (SI: nmol/L = 0.333 x ng/mL)

Performed at Mayo Medical Labs, Rochester MN Effective 29Oct02 – present: >=16Y 0.9 - 4.3

C-Peptide, Sensitive pmol/L (SI: nmol/L = 0.001 x pmol/L)

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: (fasting) 170 – 900

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 – 18Sep94: 0.8 - 4.0 ng/mL (SI: nmol/L = 0.333 x ng/mL)

Effective 25Mar88 – 19May91: 0.5 - 3.0 ng/mL (SI: nmol/L = 0.333 x ng/mL)



Test Name: C-Reactive Protein Laboratory Medicine

Lab Area: Immunology

Synonyms: CRP **Reference Ranges:**

C-Reactive Protein *mg/dL* (SI: mg/L = 10 x mg/dL) Performed at National Institutes of Health, Bethesda MD

Effective 10Jan85 - present: 0.0 - 0.8



Test Name: C-Reactive Protein High Sensitivity

Department: Laboratory Medicine

Lab Area: Immunology

Synonyms: CRPHS, HSCRP, High Sensitivity

Reference Ranges:

C-Reactive Protein High Sensitivity mg/dL (SI: $mg/L = 10 \times mg/dL$)

Performed at National Institutes of Health, Bethesda MD.

Effective 13Nov03 - present: 0.020 - 0.800

Seventy-five percent of hs-CRP values in healthy adults are <0.320 mg/dL by this method. In prospective studies, HS-CRP values in the upper quartile of healthy populations have been associated with approximate 3-fold increased risk of developing cardiovascular disease or events.

This assay is currently recommended for cardiovasular risk assessment.

Test Name: C3/C4

Department: Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

C3/C4 mg/dL

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present:

C3 mg/dL (SI: g/L = 0.01 x mg/dL) 69 - 175 C4 mg/dL (SI: mg/L = 10 x mg/dL) 13 - 38

C3 mg/dL (SI: g/L = 0.01 x mg/dL)

Effective 05Oct94 - present: 57 – 135 Effective 06Jan93 - 04Oct94: 55 – 130 Effective 03May91 - 05Jan93: 43 – 118 Effective 12Mar85 - 02May91: 62 – 173 Effective 10Jan85 - 11Mar85: 70 – 176

C4 mg/dL (SI: mg/L = 10 x mg/dL)

Effective 05Oct94 - present: 12 - 34 Effective 06Jan93 - 04Oct94: 9 - 26 Effective 03May91 - 05Jan93: 14 - 49 Effective 12Mar85 - 02May91: 9 - 42 Effective 10Jan85 - 11Mar85: 16 - 40



Test Name: CA 125

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: OC 125, Cancer Antigen 125

Reference Ranges:

CA 125 U/mL (SI: kU/L = 1 x U/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 20Jan99 - present: 0 - 34

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 19Jan99: 0 - 34

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Oct88 - 18Sep94: 0 - 35



Test Name: CA 15-3

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Cancer Antigen, MUC-1, Mucin-Like

Carcinoma

Reference Ranges:

CA 15-3 U/mL (SI: $kU/L = 1.0 \times U/mL$) Performed at Mayo Medical Labs, Rochester MN

Effective 08Mar00 - present: 0 - 29.9



Test Name: CA 19-9

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Carbohydrate Antigen

Reference Ranges:

CA 19-9 *U/mL* (SI: $kU/L = 1.0 \times U/mL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 0 - 39

Performed at SmithKline Beecham, Van Nuys CA

Effective 16Sep91 - 18Sep94: <33



Test Name: CA 27.29

Department: Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: Breast Carcinoma Assoc Ag

Reference Ranges:

CA 27.29 *U/mL*

Performed at Mayo Medical Labs, Rochester MN

Effective 14Oct04 – present: <= 38

Serum markers are not specific for malignancy and values may vary by method.



Test Name: Calcitonin

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Calcitonin pg/mL (SI: ng/L = 1.0 x pg/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Jun02 - present:

Method: Two-site Chemiluminescence Immunoassay

Basal:

Male: 0 - 15.9 Female: 0 - 7.9 Peak Calcium Infusion:

Male: 0 - 130 Female: 0 - 90

For <=16 years reference ranges are not established.

Effective 19Sep94 - 18Jun02:

Method: Radioimmunoassay (RIA) after Cartridge Extraction

Basal: Maximum reference value has not exceeded:

Male: 0 - 19 Female: 0 - 14

Peak Calcium Infusion: (2.4 mg calcium/kg) Maximum reference value has not exceeded:

Male: 0 - 19 Female: 0 - 14

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Oct87 - 18Sep94:

Male: 0 - 39 Female: 0 - 19



Test Name: Calcium, CSF

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Calcium, CSF *mmol/L* (SI: mmol/L = mEq/L x 0.5) (mmol/L = mg/dL x 0.25)

Performed at National Institutes of Health, Bethesda MD

Efffective 31Jul90 – present: 1.05 - 1.35

Efffective 01Jan79 - 30Jul90: $2.1 - 2.7 \, mEq/L \, (SI: mmol/L = mEq/L x 0.5)$



Test Name: Calcium, Ionized, Serum **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: iCa **Reference Ranges:**

Calcium, Ionized, Serum mmol/L (SI: mmol/L = 0.5 x mEq/L; mmol/L = 0.25 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 - present: 1.17 - 1.31

Performed at SmithKline Beecham, Van Nuys CA Effective 01Oct87 - 31Jul90: 4.6 - 5.3 mg/dL



Test Name: Calcium, Ionized, Whole Blood

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Calcium, Ionized, Whole Blood mmol/L (SI: mmol/L = 0.5 x mEq/L; mmol/L = 0.25 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jul01 - present: 1.17 - 1.31



Test Name: Calcium, Serum **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Calcium, Serum mmol/L (SI: mmol/L = 0.5 x mEq/L; mmol/L = 0.25 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 04Nov92 - present: 2.05 - 2.5 Effective 01Aug90 - 03Nov92: 2.05 - 2.4

Effective 01Dec88 - 31Jul90: 4.1 - 4.8 *mEq/L* Effective 01Jan79 - 30Nov88: 4.5 - 5.3 *mEq/L*

Includes supine and upright normal subjects



Test Name: Calcium, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Calcium, Urine *mmol/24h* (SI: mmol/d = 1 x mmol/24h) Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 - present:

Male: 1.25 - 7.5 Female: 1.25 - 6.25

Random Urine Calcium: No ranges established mmol/L

Effective 02Nov87 - 31Jul90: Female 2.5 - 12.5 mEq/24hr (SI: mmol/d = 0.5 x mEq/24hr)

Effective 14Nov85 - 31Jul90: Male 2.5 - 15 *mEq/24hr*

Effective 14Nov85 - 01Nov87: Female 2.5 - 12 mEq/24hr

Effective 01Jun82 - 13Nov85: 2.5 - 15.0 *mEq/24hr*



Test Name: Calculi

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs **Synonyms:** Stone analysis

Reference Ranges:

Calculi

Performed at Mayo Medical Labs, Rochester MN Effective 25Jan95 - present: Contents of stone are listed on report.

Performed at Louis C. Herring and Company, Orlando FL Effective 01Jan79 - 24Jan95: Contents of stone are listed on report.



Test Name: Candida Albicans, Blood **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

C. Albicans Agar Gel
C. Albicans Antibody
Performed at Mayo Medical Labs, Rochester MN
Effective 19Sep94 – 17Mar04

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Candida Albicans, CSF **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

C. Albicans Agar Gel, CSF
C. Albicans Latex, CSF
Performed at Mayo Medical Labs, Rochester MN
Effective 19Sep94 – 01Sep99

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Capreomycin

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Capreomycin

Performed at Centers for Disease Control, Atlanta GA No longer requested as of January 2000.



Test Name: Carbamazepine **Department:** Laboratory Medicine

Lab Area: Chemistry
Synonyms: Tegretol

Reference Ranges:

Carbamazepine mg/L (SI: $\mu mol/L = 4.23 \text{ x mg/L}$) ($\mu g/mL=mg/L$)

Performed at National Institutes of Health, Bethesda MD

Effective 02Apr92 - present:

Therapeutic 4 - 12 Toxic >15

Performed at MetPath Labs, Rockville MD

Effective until 01Apr92:

Therapeutic 8 - 12 Toxic >15

Test Name: Carbamazepine, Free Laboratory Medicine Lab Area: Mayo Medical Labs Synonyms: 10,11-Epoxide

Reference Ranges:

Carbamazepine, Free mg/L (SI: $\mu mol/L = 4.23 \text{ x mg/L}$)

Performed at Mayo Medical Labs, Rochester MN.

Effective 21Jul98 - present:

Carbamazepine, Free

Therapeutic 0.5 - 4.0

Toxic >4.0

Effective 19Sep94 - present:

Carbamazepine, Total (done as part of Free Carbamazepine Panel)

Therapeutic 2.0 - 10.0

Toxic >=12.0

Carbamazepine 10, 11-Epoxide

The rapeutic 0.4 - 4.0

Toxic >=8.0

Effective 19Sep94 - 20Jul98:

Carbamazepine, Free

Therapeutic 0.4 - 3.6

Toxic >= 5.0

Performed at SmithKline Beecham Laboratories, Van Nuys CA.

Effective 28Aug92 - 18Sep94:

Carbamazepine, Free

Therapeutic 1.0 - 3.0

Toxic >3.0

Effective 02Apr92 - 27Aug92: Optimum 1.6 - 2.4

Effective until 01Apr92: 1.6 - 2.4

Effective 02Dec92 - 18Sep94:

Carbamazepine 10, 11-Epoxide:

Usual Antiepileptic range 0.1 - 1.0

Performed at MetPath Laboratories, Rockville MD.

Effective until 17Mar88: No ranges available

Free Carbamazepine is sent out to a Referral Lab which includes the Total Carbamazepine. The

Referral Lab's therapeutic and toxic ranges for Total Carbamazepine may not the be identicated the ranges for Total Carbamazepine performed in-house at NIH.	al to



Test Name: Carbohydrate Deficient Transferrin

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: CDT **Reference Ranges:**

Carbohydrate Deficient Transferrin

Performed at Mayo Medical Labs, Rochester MN

Effective 12Oct00 - present:

Mono-oligo/Di-oligo Ratio 0.000 - 0.074 A-oligo/Di-oligo Ratio 0.000 - 0.022

Effective 09Oct96 - 11Oct00:

CDT Pentasialo
CDT Tetrasialo
CDT Trisialo
CDT Trisialo
CDT Disialo
CDT Monosialo
CDT Asialo

13 – 23 percent
38 – 49 percent
2 – 15 percent
0 – 6 percent
0 – 5 percent



Test Name: Carbohydrate, Urine **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Reducing Substances, Succinylnucleoside,

Monosaccharide, Disaccharide, Fructose,

Lactose, Maltose, Sucrose

Reference Ranges:

Carbohydrate, Urine

Performed at Mayo Medical Labs, Rochester MN Effective 11Feb05 – present: negative; if positive, carbohydrate is identified.



Test Name: Carbon Dioxide, Total **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: CO2, Bicarbonate

Reference Ranges:

Carbon Dioxide, Total mmol/L (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 – present: 21 - 31

Effective 01Dec88 – 31Jul90: 21 - 31 mEq/L (SI: mmol/L = 1 x mEq/L)

Effective 01Jan79 – 30Nov88: 23 - 33 *mEq/L*



Test Name: Carboxyhemoglobin **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: Carbon Monoxide

Reference Ranges:

Carboxyhemoglobin *percent* (SI: fraction = 0.01 x percent)

Performed at National Institutes of Health, Bethesda MD

Effective 04Nov92 - present:

Non-smokers 0.5 - 1.5 1-2 packs/d 4 - 5

>2 packs/d 8 - 9 Toxic >20



Test Name: Carnitine, Free, Total, and Acylcarnitine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Carnitine, Free, Total, and Acylcarnitine *µmol/L* (SI: µmol/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 09Dec99 – present:

Total Carnitine

ID	23 - 68
2D-7D	17 - 41
8D-31D	19 - 59
32D-12M	38 - 68
13M-6Y	35 - 84
7Y-10Y	28 - 83
11Y-17Y	34 - 77
18Y-150Y	34 - 74

Free Carnitine

1D	12 - 36
2D-7D	10 - 21
8D-31D	12 - 46
32D-12M	27 - 49
13M-6Y	24 - 63
7Y-10Y	22 - 66
11Y-17Y	22 - 65
18Y-150Y	25 - 54

Acylcarnitine

2D-7D	3 - 24
8D-31D	4 - 15
32D-12M	7 - 19
13M-6Y	4 - 28
7Y-10Y	3 - 32
11Y-17Y	4 - 29
18Y-150Y	5 - 30
. ~ ~ ~	

7 - 37

AC/FC RATIO

1D	0.4 - 1.7
2D-7D	0.2 - 1.4
8D-31D	0.1 - 0.7
32D-12M	0.2 - 0. <u>5</u>
13M-6Y	0.1 - 0.8

7Y-10Y 0.1 - 0.9 11Y-17Y 0.1 - 0.9 18Y-150Y 0.1 - 0.8

Effective 04Oct95 - 08Dec99: nmol/mL (SI: $\mu mol/L = 1.0 \text{ x nmol/mL}$)

Free Carnitine

M & F, 1D-7D 10.0 - 29.0 M & F, 8D-2Y 19.0 - 50.0 Male 28.0 - 69.0 Female 19.0 - 60.0

Total Carnitine

M & F, 1D-7D 17.0 - 46.0 M & F, 8D-2Y 24.0 - 66.0 Female 30.0 - 73.0 Male 37.0 - 89.0



Test Name: Carotene

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Carotene $\mu g/dL$ (SI: $\mu mol/L = 0.0186 \text{ x } \mu g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 15Sep99 -present: 48 - 200*

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 14Sep99: 48 – 200*

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jan79 - 18Sep94: 50 - 300*

^{*}varies with diet



Test Name: Catecholamines, Fractionated, 12 hr Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Catecholamines, Fractionated, 12 hr Urine µg/specimen

Performed at Mayo Medical Labs, Rochester MN

Effective 18Dec02 – present:

Epinephrine, Urine: No ranges available Norepinephrine, Urine: No ranges available Dopamine, Urine: No ranges available



Test Name: Catecholamines, Fractionated, CSF

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Test no longer performed

Catecholamines, Fractionated, CSF

Performed at Covance Laboratories, Madison WS

Effective 09Oct96 - 27Sept02: Reference ranges are noted on the report.

Test Name: Catecholamines, Fractionated, Plasma

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Catecholamines, Fractionated, Plasma pg/mL

Performed at National Institutes of Health, Bethesda MD Effective 13Jun01 – present:

Supine 15 min

Norepinephrine 80-498 (SI: nmol/L = $0.006 \times \text{pg/mL}$) Epinephrine 4-83 (SI: pmol/L = $5.46 \times \text{pg/mL}$) Dopamine 3-46 (SI: pmol/L = $6.53 \times \text{pg/mL}$)

DHPG 518 – 1408 DOPA 922 – 2483 DOPAC 675 – 2636

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 12Jun01:

Supine

Norepinephrine 70 - 750Epinephrine 0 - 110Dopamine 0 - 29

Standing

Norepinephrine 200 - 1700Epinephrine 0 - 140Dopamine 0 - 29

Performed at SmithKline Beecham, Van Nuys CA

Effective 25Jan90 - 18Sep94:

Supine 30 min.

Norepinephrine 110 – 410 Epinephrine <50 Dopamine <85 Total 120 – 450

Sitting

Norepinephrine 120 – 680 Epinephrine <60 Dopamine not established Total 140 – 730

Standing 30 min.

Norepinephrine 125 - 700

<90 Epinephrine Dopamine not established Total 150 - 750

Effective 24Feb89 - 24Jan90:

Supine 30 min.

Norepinephrine 110-410Epinephrine < 50 Dopamine < 30 Total 120 - 450

Sitting

Norepinephrine 120-680Epinephrine < 60 Dopamine < 30 Total 140 - 730

Standing 30 min.

Norepinephrine 125 - 700Epinephrine <90 Dopamine < 30 Total 150 - 750

Effective 25Mar88 – 23Jan89:

Supine 30 min.

Norepinephrine 110 – 410 Epinephrine < 50 Dopamine < 30 Total 140 - 450

Sitting

Norepinephrine 120-680Epinephrine < 60 Dopamine < 30 140 - 730Total

Standing 30 min.

Norepinephrine 125 - 700Epinephrine <90 Dopamine < 30 Total 150 - 750

Test Name: Catecholamines, Fractionated, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Epinephrine, Norepinephrine, Dopamine

Reference Ranges:

Catecholamines, Urine, Fractionated µg/24hr (SI: nmol/d)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present:

Epinephrine $\mu g/24hr$ (SI: nmol/d = 5.46 x $\mu g/24hr$)

 $\begin{array}{lll} 1M-11M & 0-2.5 \\ 12M-23M & 0-3.5 \\ 2Y-3Y & 0-6 \\ 4Y-9Y & 0.2-10 \\ 10Y-15Y & 0.5-20 \\ 16Y-150Y & 0-20 \\ \end{array}$

Norepinephrine $\mu g/24hr$ (SI: nmol/d = 5.91 x $\mu g/24hr$)

 $\begin{array}{lll} 1M\text{-}11M & 0-10 \\ 12M\text{-}23M & 1-17 \\ 2Y\text{-}3Y & 4-29 \\ 4Y\text{-}9Y & 8-45 \\ 10Y\text{-}15Y & 13-65 \\ 16Y\text{-}150Y & 15-80 \\ \end{array}$

Dopamine $\mu g/24hr$ (SI: nmol/d = 6.53 x $\mu g/24hr$)

1M-11M 0 - 85 12M-23M 10 - 140 2Y-3Y 40 - 260 4Y-150Y 65 - 400

Performed at SmithKline Beecham, Van Nuys CA

Effective 04Jan89 - 18Sep94:

Norepinephrine $11 - 86 \mu g/24hr$ (SI: nmol/d = $5.91 \times \mu g/24hr$) Epinephrine $0 - 15 \mu g/24hr$ (SI: nmol/d = $5.46 \times \mu g/24hr$) Dopamine $100 - 440 \mu g/24hr$ (SI: nmol/d = $6.53 \times \mu g/24hr$)

Effective 01Jul85 - 03Jan89: Total 0 - 115 Effective 01Jan79 - 30Jul85: Total 0 - 135



Test Name: Catheter IV Culture **Department:** Laboratory Medicine

Lab Area: Microbiology
Synonyms: Cath tip

Reference Ranges:

Catheter IV Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present:

No growth or < 15 colonies of organisms considered to be insignificant. For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Catheter Non-IV Culture **Department:** Laboratory Medicine

Lab Area: Microbiology
Synonyms: CTHNIV

Reference Ranges:

Catheter Non-IV Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No growth

For information on Antibiotic Susceptibility on significant isolates,

click here

Test Name: CBC and Fingerstick CBC **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms: Complete Blood Count

Reference Ranges:

CBC and Fingerstick CBC

Performed at National Institutes of Health, Bethesda MD

WBC Count $x 10^3/\mu L$ (SI: $10^9/L = 1.0 \times 10^3/\mu L$)

Effective 18Sep86 – present:

Male 3.3 - 9.6 Female 3.4 - 9.6

Effective 01Jan79 - 17Sep86: M/F 5 - 10

RBC Count $x 10^6/\mu L$ (SI: $10^{12}/L = 1.0 \times 10^6/\mu L$)

Effective 18Sep86 – present:

Male 4.14 - 5.59

Female 3.58 - 4.99

Effective 01Jan79 – 17Sep86:

Male 4.2 - 6.2

Female 4.2 - 5.2

Hemoglobin g/dL

Effective 01Jan79 – present:

0-6Y 11.0-15.0

7-14Y 11.5-15.5

Effective 28Aug96 – present:

Male >=15Y 12.7 - 16.7

Female >=15Y 11.1 - 15.0

Effective 01Jan79 – 17Sep86:

Male >=15Y 14.0 - 16.5

Female $\geq =15Y$ 12.0 - 16.0

Fingerstick Hemoglobin

Effective 01Jan79 - 31Jan96:

0Y-6Y 10.3 - 14.9

7Y-14Y 10.6 - 15.2

Hematocrit %

Effective 01Jan79 – present:

0-6Y 33-42

7-14Y 35-44

Effective 28Aug96 – present:

Male >=15Y 36.7 - 48.3

Female $\geq =15Y$ 31.8 - 43.2

Effective 01Jan79 – 17Sep86:

Male >=15Y 42 - 51

Female $\ge 15Y \quad 37 - 47$

RBC Indices

MCV fL

Effective 28Aug96 – present:

Male 79-98

Female 77-99

Effective 01Jan79 - 17Sep86: M/F 80 - 99

RDW %

Effective 28Aug96 – present: 11.6-14.8

MCH pg (no longer performed)

Effective 18Sep86 – 27Aug96:

Male 27 - 34

Female 26 - 35

Effective 01Jan79 – 17Sep86: M/F 27 - 31

MCHC g/dL (no longer performed)

Effective 18Sep86 – 27Aug96: 34 - 36

Effective 01Jan79 – 17Sep86: 32 - 36

Platelet Count $x 10^3/\mu L$ (SI: $10^9/L = 1.0 \times 10^3/\mu L$)

Effective 28Aug96 – present:

Male 154 - 345

Female 162 - 380

Effective 01Jan79 – 17Sep86: M/F 145 - 364

Fingerstick Platelet

Effective 01Jan79 – present: 150 - 450



Test Name: CBC/Diff

Department: Laboratory Medicine

Lab Area: Hematology
Synonyms: WBC Diff Count

Reference Ranges:

Complete Blood Count Reference Ranges:

Performed at National Institutes of Health, Bethesda MD

WBC Count $x 10^3/\mu L$ (SI: $10^9/L = 1.0 \times 10^3/\mu L$)

Effective 18Sep86 – present:

Male 3.3 - 9.6 Female 3.4 - 9.6

Effective 01Jan79 – 17Sep86: M/F 5 - 10

RBC Count $x 10^6/\mu L$ (SI: $10^{12}/L = 1.0 \times 10^6/\mu L$)

Effective 18Sep86 – present:

Male 4.14 - 5.59

Female 3.58 - 4.99

Effective 01Jan79 – 17Sep86:

Male 4.2 - 6.2

Female 4.2 - 5.2

Hemoglobin g/dL

Effective 01Jan79 – present:

0-6Y 11.0-15.0

7-14Y 11.5-15.5

Effective 28Aug96 – present:

Male >=15Y 12.7 - 16.7

Female >=15Y 11.1 - 15.0

Effective 01Jan79 – 17Sep86:

Male >=15Y 14.0 - 16.5

Female $\geq =15Y$ 12.0 - 16.0

Hematocrit %

Effective 01Jan79 – present:

0-6Y 33-42

7-14Y 35-44

Effective 28Aug96 – present:

Male >=15Y 36.7 - 48.3

Female $\geq =15Y$ 31.8 - 43.2

Effective 01Jan79 – 17Sep86:

Male >=15Y 42 - 51 Female >=15Y 37 - 47

RBC Indices

MCV fL

Effective 28Aug96 – present:

Male 79-98 Female 77-99

Effective 01Jan79 – 17Sep86: M/F 80 - 99

RDW %

Effective 28Aug96 – present: 11.6-14.8

MCH pg (no longer performed)

Effective 18Sep86 – 27Aug96:

Male 27 - 34 Female 26 - 35

Effective 01Jan79 – 17Sep86: M/F 27 - 31

MCHC g/dL (no longer performed)

Effective 18Sep86 – 27Aug96: 34 - 36

Effective 01Jan79 – 17Sep86: 32 - 36

Platelet Count $x 10^{3}/\mu L$ (SI: $10^{9}/L = 1.0 \times 10^{3}/\mu L$)

Effective 28Aug96 – present:

Male 154 - 345 Female 162 - 380

Effective 01Jan79 – 17Sep86: M/F 145 - 364

Differential Reference Ranges:

Performed at National Institutes of Health, Bethesda MD

Polys %

Effective 18Sep86 – present:

Male 40.0 - 78.0 Female 38.0 - 78.0

Polys Abs. K/µL

Effective 28Aug96 – present:

Male 1.32 - 7.50 Female 1.29 - 7.50

Lymph %

Effective 18Sep86 – present:

Male 14.0 - 49.0 Female 14.0 - 51.0

Lymph Abs. K/µL

Effective 28Aug96 – present:

Male 0.46 - 4.7 Female 0.48 - 4.9

Mono %

Effective 18Sep86 – present:

Male 1.0 -13.0 Female 1.0 - 12.0

Mono Abs. K/µL

Effective 28Aug96 – present:

Male 0.03 - 1.25 Female 0.03 - 1.15

Eos %

Effective 18Sep86 – present:

Male 0 - 9.0 Female 0 - 8.0

Eos Abs. K/μL

Effective 28Aug96 – present:

Male 0 - 0.86 Female 0 - 0.77

Baso %

Effective 18Sep86 – present:

Male 0 - 3 Female 0 - 3

Baso Abs. $K/\mu L$

Effective 28Aug96 – present:

Male 0 - 0.29 Female 0 - 0.29



Test Name: CEA

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Carcino-Embryonic Antigen

Reference Ranges:

CEA $\mu g/L$ (SI: $\mu g/L = ng/mL$)

Performed at National Institutes of Health, Bethesda MD Effective 07Oct92 - present: 0-2.5 (non-smoking adults)

Performed at SmithKline Beecham, Van Nuys CA

Effective 04Jan89 - 06Oct92: <2.5 *ng/mL* Effective 07Sep85 - 03Jan89: <3 *ng/mL* Effective 01Jan79 - 06Sep85: <2.5 *ng/mL*



Test Name: Celiac Disease Antibody
Department: Laboratory Medicine
Mayo Medical Labs

Synonyms: Endomysial, Reticulin, Gliadin

Reference Ranges:

Celiac Disease Antibody

Performed at Mayo Medical Labs, Rochester MN

Endomysial IgA Antibody

Effective 05Feb97 – present:

Negative in normal individuals; also negative in patients w/dermatitits herpetiformis or coeliac disease who adhere to gluten-free diet.

Reticulin Antibody

Effective 17Apr00 - present: Negative

Gliadin Antibody IgG and IgA EU (SI: KIU/L = EU x 1.0)

Effective 20Aug01 – present:

Negative

 $1D-23M \quad 0-49.9$

23M-150Y 0-24.9

Weakly Positive

1D-23M 50-100

23M-150Y 25-50

Positive

1D-23M > 100

23M-150Y >50

Effective 10May00 - 19Aug01: U/mL (SI: kIU/L = U/mL x 1.0)

Negative

 $1D-23M \quad 0-49.9$

23M-150Y 0-24.9

Weakly Positive

1D-23M 50 - 100

 $23M-150Y\ 25-50$

Positive

1D-23M >100

23M-150Y > 50

Interpretation for Gliadin Antibodies

Positive results are consistent with celiac disease or dermatitis herpetiformis.



Test Name: Cell Count and Differential Laboratory Medicine

Lab Area: Hematology
Synonyms: Body Fluid

Reference Ranges:

As of March 22, 2005, each of these body fluids have a separate Web page: Synovial, Pleural, Peritoneal, and Pericardial. See individual pages.

Cell Count and Differential

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – 22Mar05:

Cell Count:

Pericardial, Peritoneal, Pleural Fluid

WBC: <500/mm³ RBC: <100/mm³ Differential: <25% neutrophils

Lymphocytes, macrophages and mesothelial cells predominate

Joint (Synovial) Fluid:

WBC: <180/mm³ RBC: 0-1/mm³

Differential: <25% neutrophils

Lymphocytes and monocytes/histiocytes predominate.

All cells other than neutrophils and lymphocytes are categorized under "others"



Test Name: Ceruloplasmin Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

Ceruloplasmin mg/dL (SI: mg/L = 10 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 - present: 22 - 66

Ceruloplasmin mg/L (SI: mg/L)

Effective 05Oct94 – present: 201 – 575 Effective 06Jan93 - 04Oct94: 170 – 487 Effective 03May91 - 05Jan93: 137 – 375

Effective 11Feb82 - 02May91:

Male: 150 - 320Female: 180 - 370

Effective 01Jan79 - 10Feb82:

Male: 120 - 270Female: 150 - 280



Test Name: Chagas Disease Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Trypanosoma Cruzi

Reference Ranges:

Chagas Disease, IgG & IgM titer

Performed at Focus Technologies, Cypress CA Effective 06Mar99 - present:

IgG <1:16 IgM <1:20

The serodiagnosis of Chagas' disease of American trypanosomiasis by IFA is highly sensitive and specific, although crossreactions may occur with leishmaniasis. A.T. cruzi IgM (> or = 1:20) response is observed in acute disease prior to IgG seroconversion. In chronic Chagas' disease, IgG is usually detected a levels greater than or equal to 1:64.

Effective 19Sep94 - 05Mar99: No ranges available

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Chem 1, Whole Blood, Venous

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Chem 1, Whole Blood, Venous

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 - present:

 Sodium:
 135 - 144 mmol/L

 Potassium:
 3.3 - 5.1 mmol/L

 Chloride:
 99 - 107 mmol/L

Bicarbonate: not established *mmol/L*

Glucose: $70 - 115 \, mg/dL$

Ionized Calcium: 1.17 - 1.31 mmol/L



Test Name: Chem 20 Panel Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Chem 20 Panel

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 - present:

Sodium 135-144 mmol/LPotassium 3.3-5.1 mmol/LChloride 99-107 mmol/LTotal CO_2 (Bicarbonate) 21-31 mmol/LCreatinine Male: 0.9-1.4 mg/dL

Female: $0.7-1.3 \, mg/dL$

Glucose 70-115 mg/dLUrea Nitrogen 8-22 mg/dLAlbumin 3.7-4.7 g/dL

Calcium, Total 2.05-2.5 *mmol/L* (Includes supine and upright normal subjects)

Magnesium, Total 0.75-1.00 mmol/L Inorganic Phosphorus >=18Y 2.5-4.8 mg/dL Alkaline Phosphatase >18Y 37-116 U/L ALT/GPT 6-41 U/L

ALT/GPT 6-41 *U/L*AST/GOT 9-34 *U/L*Total Bilirubin 0.1-1.0 *mg/dL*

Direct Bilirubin < 0.2 mg/dLLD = 113-226 U/LTotal Protein = 6.0-7.6 g/dLTotal CK Male: = 52-386 U/L

Female: 38-252 *U/L*

Uric Acid Male: 3.7-8.6 mg/dL

Female: $2.4-5.8 \, mg/dL$

Effective 01Aug90 - 10Jun03:

Sodium 135-144 mmol/LPotassium 3.3-5.1 mmol/LChloride 99-107 mmol/LTotal CO_2 (Bicarbonate) 21-31 mmol/LCreatinine Male: 0.9-1.4 mg/dL

Female: $0.7-1.3 \, mg/dL$

Glucose $70-115 \, mg/dL$

Urea Nitrogen 8-22 mg/dLAlbumin 3.7-4.7 g/dL

Calcium, Total 2.05-2.5 *mmol/L* (Includes supine and upright normal subjects)

Magnesium, Total 0.75-1.00 mmol/LInorganic Phosphorus >=18Y 2.3-4.3 mg/dLAlkaline Phosphatase >18Y 37-116 U/LALT/GPT 6-41 U/LAST/GOT 9-34 U/LTotal Bilirubin 0.1-1.0 mg/dL

Direct Bilirubin $< 0.2 \ mg/dL$ LD $113-226 \ U/L$ Total Protein $6.0-7.6 \ g/dL$ Total CK Male: $52-386 \ U/L$

Female: 38-252 *U/L*

Uric Acid Male: $3.7-8.6 \, mg/dL$

Female: $2.4-5.8 \, mg/dL$

Test Name: Chem 2, Whole Blood Arterial

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Blood Gases, Arterial

Performed at National Institutes of Health, Bethesda MD

pН

Effective 25Jun97 – present: 7.35 - 7.45 Effective 01Jan79 – 24Jun97: 7.34 - 7.45

PCO, mmHg (SI: kPa = 0.133 x mmHg)

Effective 25Jun97 – present: 32 - 48

Effective 01Jan79 – 24Jun97:

Male 35-48

Female 32-45 mmHg

 PO_{2} *mmHg* (SI: kPa = 0.133 x mmHg)

Effective 01Jan79 – present: 83-108

O, %

Effective 01Jan79 – present: 94.0-98.0%

HCO₃ mmol/L

Effective 25Jun97 – present: 22 - 26 Effective 01Jan79 – 24Jun97: 23 - 33

Electrolytes:

Effective 01Aug90 – present:

Sodium 135-144 mmol/L
Potassium 3.3-5.1 mmol/L
Chloride 99-107 mmol/L
Bicarbonate 22-26 mmol/L
Glucose 70-115 mg/dL
L-lactate 0.5-2.2 mmol/L
Ionized Calcium 1.17-1.31 mmol/L



Test Name: Chem 2, Whole Blood Arterial, Surgery

Department: Laboratory Medicine

Lab Area: Chemistry **Synonyms:** OR Panel

Reference Ranges:

Chem 2, Whole Blood, Arterial, Surgery

Performed at National Institutes of Health, Bethesda MD

Effective 25Jun97 – present: pH Arterial 7.35 – 7.45

PCO₂: 35 - 48 mmHg (male); (SI: kPa = 0.133 x mm Hg)

 $32 - 45 \, mmHg \, (female)(SI: kPa = 0.133 \, x \, mm \, Hg)$

 pO_{3} arterial 83 – 108 mmHg (SI: kPa = 0.133 x mm Hg)

HCO₃ Arterial 22-26 mmol/LO₃ Saturation 94.0-98.0 percent

Hematocrit:

<6Y 33.0-42.0%
6-14Y 35.0-44.0%
Male >14Y 36.7-48.3%
Female >14Y 31.8-43.2%

Effective 01Aug90 – present:

Sodium 135-144 mmol/L
Potassium 3.3-5.1 mmol/L
Chloride 99-107 mmol/L
Bicarbonate 22-26 mmol/L
Glucose 70-115 mg/dL
Ionized Calcium 1.17-1.31 mmol/L

Ionized Magnesium 0.44-0.60 mmol/L



Test Name: Chem 2, Whole Blood, Venous

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Chem 2, Whole Blood, Venous

Performed at National Institutes of Health, Bethesda MD

Effective 25Jun97 – present:

Sodium 135-144 *mmol/L* Potassium 3.3-5.1 *mmol/L* Chloride 99-107 *mmol/L*

Bicarbonate not established *mmol/L*

Glucose 70-115 mg/dL L-lactate 0.5-2.2 mmol/L Ionized Calcium 1.17-1.31 mmol/L



Test Name: Chem 2, Whole Blood, Venous, Surgery

Department: Laboratory Medicine

Lab Area: Chemistry **Synonyms:** OR Panel

Reference Ranges:

Chem 2, Whole Blood, Venous, Surgery

Performed at National Institutes of Health, Bethesda MD Effective 25Jun97 – present:

Hematocrit:

<6Y 33.0-42.0% 6-14Y 35.0-44.0% Male >14Y 36.7-48.3% Female >14Y 31.8-43.2%

pH 7.32-7.45pCO₂: $38-50 \, mmHg$ Sodium $135-144 \, mmol/L$ Potassium $3.3-5.1 \, mmol/L$ Chloride $99-107 \, mmol/L$

Bicarbonate not established *mmol/L*

Glucose 70-115 mg/dL Ionized Calcium 1.17-1.31 mmol/L Ionized Magnesiumn 0.44-0.60 mmol/L



Test Name: Chlamydia Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Lymphogran Venereum

Reference Ranges:

Chlamydia Antibody titer

Performed at Mayo Medical Labs, Rochester MN Effective 15Dec95 - present:

C. pneumoniae IgG:

>= 1:512 Presumptive evidence of current infection.

< 1:512 and >= 1:64 Evidence of infection at an undetermined time.

<1:64 Suggests patient does not have current infection.

C. psittaci IgG, C. trachomatis IgG:

>=1:64 Presumptive evidence of current infection.

<1:64 Suggests patient does not have current infection.

C. pneumoniae IgM, C. psittaci IgM, C. trachomatis IgM:

>= 1:10 Presumptive evidence of infection.

< 1:10 Suggests patient does not have current infection.

Effective 19Sep94 - 14Dec95: <1:10

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective 02Mar86 – 31Aug90: No ranges available

Performed at Center for Disease Control, Atlanta GA Effective until 01Mar86: No ranges available



Test Name: Chlamydia by EIA **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: Chlamydia Trachomatis Ag

Reference Ranges:

Chlamydia EIA

Performed at Mayo Medical Labs, Rochester MN
Effective 08Mar00 - present: Reported as negative or positive for Chlamydia trachomatis antigen



Test Name: Chlamydia pneumoniae PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Chlamydia pneumoniae PCR

Performed at National Institutes of Health, Bethesda MD Effective 14Feb01 – present:

Reported as negative or positive for Chlamydia pneumoniae by PCR



Test Name: Chlamydia pneumoniae PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Chlamydia pneumoniae PCR

Performed at National Institutes of Health, Bethesda MD Effective 14Feb01 – present:

Reported as negative or positive for Chlamydia pneumoniae by PCR



Test Name: Chlamydia trachomatis and Neisseria

gonorrhoeae LCR

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

C. trachomatis / N. gonorrhoeae LCR

Performed at Mayo Medical Labs, Rochester MN Effective 10Nov99 - 26Aug02:

Reported as Negative or Positive for Chlamydia trachomatis and Neiseria gonorrhoeae.



Test Name: Chlamydia trachomatis/ Neisseria

gonorrhoeae Amplified DNA

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: C.trach/N.gono DNA, GC

Reference Ranges:

Chlamydia trachomatis and Neisseria gonorrhoeae by Nucleic Acid Amplification

Performed at Mayo Medical Labs, Rochester MN

Effective 27Aug02 - present:

Reported as positive or negative for *Chlamydia trachomatis* DNA and *Neisseria gonorrhoeae* DNA.



Test Name: Chlamydia trachomatis/Neisseria gonorrhoeae

amplfied DNA

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: C.trach/N.gono DNA, GC

Reference Ranges:

Chlamydia trachomatis and Neisseria gonorrhoeae by Nucleic Acid Amplification

Performed at Mayo Medical Labs, Rochester MN

Effective 27Aug02 - present:

Reported as positive or negative for *Chlamydia trachomatis* DNA and *Neisseria gonorrhoeae* DNA.



Test Name: Chlamydia trachomatis/Neisseria gonorrhoeae

amplified DNA

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: C.trach/N.gono. DNA, GC

Reference Ranges:

Chlamydia trachomatis and Neisseria gonorrhoeae by Nucleic Acid Amplification

Performed at Mayo Medical Labs, Rochester MN

Effective 27Aug02 - present:

Reported as negative or positive for *Chlamydia trachomatis* DNA and/or *Neisseria gonorrhoeae* DNA.



Test Name: Chlamydia trachomatis/Neisseria gonorrhoeae

DNA

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: C. trach/N. gono, GC

Reference Ranges:

Chlamydia trachomatis and Neisseria gonorrhoeae by Nucleic Acid Amplification

Performed at Mayo Medical Labs, Rochester MN

Effective 27Aug02 - present:

Reported as positive or negative for Chlamydia trachomatis DNA and / or Neisseria gonorrhoeae DNA.



Test Name: Chlamydia/gonorrhoeae Amplified DNA

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Trachomatis, Neisseria, GC

Reference Ranges:

Chlamydiea trachomatis and Neisseria gonorrhoeae by Nucleic Acid Amplification

Performed at Mayo Medical Labs, Rochester MN

Effective 27Aug02 - present:

Chlamydia trachomatis DNA not detected Neisseria gonorrhoeae DNA not detected



Test Name: Chloride, CSF

Department: Laboratory Medicine **Lab Area:** Chemistry

Synonyms: Cl **Reference Ranges:**

Chloride, CSF *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 – present: 118-132

Effective 12Apr89 - 31Jul90: 118 - 132 mEq/L (SI: mmol/L = 1 x mEq/L)

Effective 12Dec85 - 11Apr89: 118 - 130 mEq/L Effective 01Jan79 - 11Dec85: 118 - 132 mEq/L



Test Name: Chloride, Feces **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Fecal, Stool

Reference Ranges:

Chloride, Feces

Performed at Mayo Medical Labs, Rochester MN Effective 25Nov96 - present: 24hr Collection $0.0 - 29.9 \ mEq/24hrs$ (SI: mmol/d = $1.0 \ x \ mEq/24hrs$)

24hr Collection 0.0 - 29.9 mEq/24hrs (SI: mmol/d = 1.0 x mEq/24hrs) Random 0.0 - 39.9 mEq/kg (SI: mmol/kg = 1.0 x mEq/kg)

Effective 06Nov96 - 24Nov96:

24hr Collection 0.0 - 2.0 mEq/24hrs Random Collection 0.0 - 10.0 mEq/kg

Effective 15Mar95 - 05Nov96:

24hr Collection no established ranges Random Collection no established ranges

Performed at American Medical Labs, Chantilly VA Effective 02Jan85 – 14Mar95: Ranges not available

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – 01Jan85: Ranges not available



Test Name: Chloride, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Chloride, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan80 – present: No ranges available



Test Name: Chloride, Serum or Plasma

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Cl **Reference Ranges:**

Chloride *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 - present: 99 - 107

Effective 01Dec88 - 31Jul90: $99 - 107 \, mEq/L$ (SI: mmol/L = $1 \times mEq/L$)

Effective 01Jan79 - 30Nov88: $100 - 110 \, mEq/L$



Test Name: Chloride, Sweat **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Chloride, Sweat mEq/L (SI:mmol/L = 1 x mEq/L)

Performed at Children's National Medical Center, Washington D.C.

Effective 10Oct90 - present: No ranges established

Effective 01Jan79 - 31Dec84:

0Y-20Y 5 - 50

>=21Y 5 - 60



Test Name: Chloride, Urine Laboratory Medicine

Lab Area: Chemistry

Synonyms: Cl **Reference Ranges:**

Chloride, Urine mmol/24hr (SI: mmol/d = 1 x mmol/24hr) also (mmol/24h = mEq/24h)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 - present: Chloride Excretion 110 - 250

Random Urine No ranges established

Effective 01Jun82 - 31Jul90:

Chloride Excretion 110 - 250 mEq/24hr



Test Name: Cholestanol

Test Name:
Department: Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Cholestanol $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL)

Performed at Kennedy Krieger Institute, Clinical Mass Spectrometry Laboratory, Baltimore MD

Effective 09Oct96 - present:

1.9 - 4.30Y-11Y 12Y-150Y 3.0-5.4



Test Name: Cholesterol, HDL Laboratory Medicine

Lab Area: Chemistry

Synonyms: High density lipoprotein

Reference Ranges:

Cholesterol, HDL mg/dL (SI: mmol/L = 0.0259 x mg/dL)

Performed at the National Institutes of Health, Bethesda MD

Effective 13Jun01 – present:

Low (high risk) <40 High (low risk) >=60

Effective 07Feb96 – 12Jun01:

Negative risk >=60 Average risk 35 – 59 Major risk <35

Effective 10Oct91 – 06Feb96:

Male/Female Decreased Risk >=35

Performed at SmithKline Beecham, Van Nuys CA

Effective 04Jan89 – 09Oct91:

Male

Decreased Risk >45 Increased Risk <45 Average Risk 45

Female:

Decreased Risk >55 Increased Risk <55 Average Risk 55

Effective 01Oct87 – 03Jan89:

Male

5Y-19Y 30 - 74 20Y-29Y 30 - 63

30Y-39Y 28-63

 $40Y-49Y \quad 27-67$

50Y-59Y 28 - 71 60Y-69Y 30 - 78

>=70Y 31 – 75

Female:

5Y-19Y 35-74

20Y-29Y 33 – 83 $30Y-39Y \quad 34-82$ $40Y-49Y \quad 34-88$ 50Y-59Y 37 – 92 $60Y-69Y \quad 35-98$ >=70Y 33 - 92Effective 06Nov85 – 30Sep87: Male 0Y-19Y 30 - 65 $20Y-29Y \quad 35-70$ >29Y 30 - 65Female 0Y-19Y 30 - 7035 - 7520Y-29Y

Effective 26Mar80 – 05Nov85: 29 – 77

35 - 85

40 - 9535 - 85

30Y-39Y 40Y-49Y

>=50Y



Test Name: Cholesterol, LDL (Calculated)

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Low density lipoprotein

Reference Ranges:

Cholesterol, Total mg/dL (SI: mmol/L = 0.0259 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 07Feb96-present:

Desirable <200

Borderline high risk 200-239 High risk >=240

Effective 12Jul89 – 06Feb96: 100 – 200

Effective 01Dec88 – 11Jul89: 75 – 200

Effective 04Nov87 – 30Nov88:

2Y-19Y 75-175

20Y-29Y 75-206

30Y-39Y 75 – 226

>=40Y 75 - 247

Effective 08Jan81 – 04Nov87: 163 – 263

Effective 01Jan79 - 07Jan81: 150 - 250

Cholesterol, LDL mg/dL (SI: mmol/L = 0.0259 x mg/dL)

Performed at the National Institutes of Health, Bethesda MD

Effective 13Jun01 – present:

Optimal <100

Near or above optimal 100 - 129

Borderline high risk 130 - 159

High risk 160 - 189

Very high risk >=190

Effective 24Jan95 – 12Jun01:

Desirable: 65 - 129

Moderate Risk: 130 - 159

High Risk: >=160

Effective 07Feb96 – 12Jun01:

Optimal in CHD: <=100 Higher than Optimal in CHD: >100

Cholesterol, HDL mg/dL (SI: mmol/L = 0.0259 x mg/dL)

Performed at the National Institutes of Health, Bethesda MD

Effective 13Jun01-present:

Low (high risk) <40 High (low risk) >=60

Effective 07Feb96 – 12Jun01:

Negative risk >=60 Average risk 35 – 59 Major risk <35

Effective 10Oct91 – 06Feb96:

Male/Female Decreased Risk >=35

Effective 04Jan89 – 09Oct91:

Male

Decreased Risk >45 Increased Risk <45 Average Risk 45

Female:

Decreased Risk >55 Increased Risk <55 Average Risk 55

Effective 01Oct87 – 03Jan89:

Male

5Y-19Y 30-74 20Y-29Y 30-63 30Y-39Y 28-63 40Y-49Y 27-67 50Y-59Y 28-71 60Y-69Y 30-78>=70Y 31-75

Female:

5Y-19Y 35-74 20Y-29Y 33-83 30Y-39Y 34-82 40Y-49Y 34-88 50Y-59Y 37-92 60Y-69Y 35-98>=70Y 33-92 Effective 06Nov85 – 30Sep87:

Male

0Y-19Y 30-65 20Y-29Y 35-70>29Y 30-65

Female

 $\begin{array}{ll} 0Y\text{-}19Y & 30-70 \\ 20Y\text{-}29Y & 35-75 \\ 30Y\text{-}39Y & 35-85 \\ 40Y\text{-}49Y & 40-95 \\ >=&50Y & 35-85 \end{array}$

Effective 26Mar80 – 05Nov85: 29 – 77

Triglycerides mg/dL (SI: mmol/L = 0.0113 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 13Jun01-present:

Normal <150

Borderline high risk 150-199

High risk 200-499

Very high risk >=500

Effective 01Jan79 - 12Jun01:

0Y-9Y not established

10Y-29Y 10 - 140

 $30Y-39Y \quad 10-150$

 $40Y-49Y \quad 10-160$

50Y-59Y 10 – 190

>59Y not established



Test Name: Cholesterol, LDL (Direct) **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: Low density lipoprotein

Reference Ranges:

Cholesterol, LDL mg/dL (SI: mmol/L = 0.0259 x mg/dL) Performed at the National Institutes of Health, Bethesda MD

Effective 13Jun01 – present: Optimal <100

Near or above optimal 100 - 129Borderline high risk 130 - 159High risk 160 - 189Very high risk >=190

Effective 24Jan95 – 12Jun01: Desirable: 65 - 129Moderate Risk: 130 - 159High Risk: >=160

Effective 07Feb96 – 12Jun01:

Optimal in CHD: <=100 Higher than Optimal in CHD: >100



Test Name: Cholesterol, Total **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Cholesterol, Total mg/dL (SI: mmol/L = 0.0259 x mg/dL) Performed at the National Institutes of Health, Bethesda MD

Effective 07Feb96-present:

Desirable <200 Borderline high risk 200-239 High risk >=240

Effective 12Jul89 – 06Feb96: 100 – 200

Effective 01Dec88 – 11Jul89: 75 – 200

Effective 04Nov87 – 30Nov88:

2Y-19Y 75 - 175 20Y-29Y 75 - 206 30Y-39Y 75 - 226 >39Y 75 - 247

Effective 08Jan81 – 04Nov87: 163 – 263

Effective 01Jan79 – 07Jan81: 150 – 250

Test Name: Cholinesterase, Pseudo **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Cholinesterase, Pseudo U/L (SI: $kU/L = 0.001 \times U/L$)

Performed at Mayo Medical Labs, Rochester MN

Effective 17Dec97 – present:

Male 3100 - 6500

Female 0Y-17Y not established

18Y-49Y 1800 - 6600

50Y-150Y 2550 - 6800

Effective 19Sep94 – 16Dec97:

Male >=18Y 11-25 U/mL (SI: kU/L = 1.0 x U/mL)

Female $\geq =18Y$ 7-25 U/mL

Performed at SmithKline Beecham, Van Nuys CA

Effective 15Mar93 - 18Sep94: 1400 - 5600 U/L

Effective 25Sep89 - 14Mar93: $2436 - 4872 \, mIU/mL \, (mIU/mL = U/L)$

Effective 06Jul89 - 24Sep89: 5000 - 7000 mIU/mL

Effective 18May89 - 05Jul89: 2.5 - 7.1 *IU/mL*

Effective 01Jul85 to 17May89:

Female $1.7 - 7.4 \ U/mL$

Male $2.4 - 6.2 \ U/mL$

Effective 01Jan79 - 01Jul85: 3 - 8 U/mL

Test Name: Cholinesterase, RBC
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Acetylcholinesterase Erythrocytes

Reference Ranges:

Cholinesterase, RBC *U/g hgb* (SI: U/g hgb) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: 26.7 – 49.2

Performed at SmithKline Beecham, Van Nuys CA Effective 5Mar93 – 18Sep94: 7700 – 17500 *U/L* (SI: kU/L = 0.001 x U/L)

Effective 25Sep89 - 14Mar93: $3590 - 6666 \, mIU/mL$ (SI: kU/L = 0.001 x mIU/mL)

Effective 06Jul89 – 24Sep89: 2000 – 4800 *mIU/mL*

Effective 18May89 - 05Jul89: 3 - 5 IU/mL (SI: kU/L = 1.0 x IU/mL)

Effective 01Jul85 – 17May89: Male 9.9 – 16.0 *U/mL* Female 9.9 – 19.3 *U/mL*

Effective 01Jan79 - 01Jul85: $0.5 - 1.0 \ U/mL$



Test Name: Chromogranin A
Department: Laboratory Medicine
Mayo Medical Labs

Synonyms:

Reference Ranges:

Chromogranin A ng/mL (SI: $\mu g/L = 1.0 \text{ x ng/mL}$) Performed at ARUP Laboratories, Salt Lake City UT

Effective 12May04 – present:

Male: 0 - 76Female: 0 - 51

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 01Nov01 – 11May04: 6 – 39 Effective 17Jul00 – 31Oct01: 2.3 – 14.3 Effective 14Nov97 – 16Jul00: 1.6 – 5.6 Effective 06Nov96 – 13Nov97: 10 – 50



Test Name: Citric Acid, Random, Urine **Department:** Laboratory Medicine

Lab Area: Laboratory Medical Labs

Synonyms: Citrate

Reference Ranges:

Citric Acid, Random Urine

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: No ranges established

Performed at SmithKline Beecham, Van Nuys CA Effective 01Dec93 – 18Sep94: No ranges established



Test Name: Citric Acid, Serum Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Citric Acid, Serum mg/dL

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 11Sep01: 1.3 - 2.6

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Dec93 - 18Sep94: 1.3 - 2.6



Test Name: Citric Acid, Urine, 24hr Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: Citrate

Reference Ranges:

Citric Acid, Urine, 24hr mg/24hr (SI: mg/d =1.0 x mg/24hr)

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: >150 (>= 20 years)

Citrate excretion increases with age for ages 20–60 ages. Lower limit of normal at age 20 is 150 mg/specimen and increases at a rate of 7.11 mg/specimen for each year over age 20. The reference values for each age are automatically calculated and reported. Reference ranges not available for ages >60 years.

Performed at SmithKline Beecham, Van Nuys CA

Effective 17Jan94 – 18Sep94: >170

Effective 01Dec93 – 16Jan94: 140 – 940



Test Name: CK-MB

Department: Laboratory Medicine

Lab Area: Chemistry Synonyms: CK-2, CPK-2

Reference Ranges:

CK-MB $\mu g/L$ (SI: $\mu g/L$)

Performed at National Institutes of Health, Bethesda MD

Effective 04Nov92 - present: 0 - 5



Test Name: Clomipramine + Norclomipramine (Total)

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Clomipramine + Norclomipramine (Total) $\mu g/L$ (SI: $\mu g/L$)

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 – present:

The rapeutic 150 - 450

Toxic >600

Performed at American Medical Labs, Chantilly VA

Effective 01Dec93 – 30May95:

The rapeutic 160 - 450

Toxic not well defined



Test Name: Clostridium Difficile Toxin Assay

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Clostridium Difficile Toxin Assay

Performed at National Institutes of Health, Bethesda MD Effective 31Aug90 – present: Negative

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Clotazimine

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Clotazimine

Performed at Centers for Disease Control, Atlanta GA No longer requested as of January 2000.



Test Name: Clozapine & Norclozapine **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Clozaril

Reference Ranges:

Clozapine & Norclozapine ng/mL (SI: $\mu g/L = 1.0 \times ng/mL$)

Peformed at Medtox Labs, St. Paul MN

Effective 24Mar00 – present:

Therapeutic Ranges

Clozapine 350 – 1500 Norclozapine not established

Combined Total 451 –>450 Plasma concentrations of Clozapine + Norclozapine (combined total) greater than 450 ng/mL have been associated with therapeutic effect.

Toxic >1800

Performed at National Medical Services, Willow Grove PA

Effective 06Mar99 – 23Mar00:

Clozapine + Norclozapine:

Average steady-sate plasma concentration following 100 mg twice daily:

Peak (2.5 hrs after last dose): 102 - 771Trough (just before dose): 41 - 343

300 mg daily: 200 - 600

The rate of formation and biological activity of Clozapine metabolites have not been fully elucidated. One study of patients dosed with 400 mg Clozapine daily for 4 weeks, showed that patients were most likely to respond to therapy when plasma concentrations of Clozapine + Norclozapine (limited activity) totaled at least 450 ng/mL.



Test Name: Coagulation Inhibitor Assay

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Coagulation Inhibitor Assay

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: Dependent on inhibitor factor tested.



Test Name: Coagulation Panel Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Coagulation Panel

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present:
Prothrombin Time (sec.)

11.8-14.7 - STA (automated instrument)

11.3-14.0 - Fib. (fibrometer-manual method)

Partial Thromboplastin Time (sec.) 23.4 -34.5 - STA (automated instrument) 24.4 - 35.6 - Fib. (fibrometer-manual method)



Test Name: Coccidioides Antibody **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Coccidioides Antibody

Performed at School of Medicine, University of California, Davis CA Effective 04Sep02 - present:

Performed at Mayo Medical Labs, Rochester MN

Effective 26Jun02 - 03Sep02: Complement Fixation: Negative Immunodiffusion: IgG: Negative

IgM: Negative

If positive, results are titered.

Effective 19Sep94 - 25Jun02: Negative, if positive results are titered.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: Negative, if positive results are titered.

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: Negative, if positive results are titered.



Test Name: Coccidioides Antibody, CSF

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Coccidioides Antibody, CSF

Performed at School of Medicine, University of California, Davis CA Effective 04Sep02 - present

Performed at Mayo Medical Labs, Rochester MN

Effective 26Jun02 - 03Sep02: Complement Fixation: Negative Immunodiffusion: IgG: Negative

IgM: Negative

If positive, results are titered.

Effective 19Sep94 - 25Jun02: Negative, if positive results are titered.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: Negative, if positive results are titered.

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: Negative, if positive results are titered.



Test Name: Collagen Peptide Type I **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: CPIK

Reference Ranges:

Collagen Peptide Type I BCE/L

Performed at Quest Diagnostics, San Juan Capistrano CA Effective 12Feb03 – present:

Male 10.7 - 22.9 Female 8.7 - 19.8



Test Name: Complement level CH50 **Department:** Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

Complement level CH50

Performed at National Institutes of Health, Bethesda MD

Effective 23Dec96 – present: 60 - 160 *CAE units* (SI: kU/L=CAE units) Effective 01Apr86 – 22Dec96: 42 - 130 *U/mL* (SI: kU/L = 1.0 xU/mL)

Effective 01Jul85 – 31Mar86: 41 – 135 CH100 *U*

Effective 25May79 – 30Jun85: 33 – 71 *U/mL* Effective 01Jan79 – 24May79: 25 – 50 *U/mL*



Test Name: Compound S, Urine **Department:** Laboratory Medicine

Lab Area:

Synonyms: 11-Deoxycortisol

Reference Ranges:

Compound S, Urine mg/24hr (SI: μ mol/d = 2.72 x mg/24hr)

Performed at SmithKline Beecham, Van Nuys CA

Effective 24May89 – 01Oct93: <2.0 Post Metrypone Single Dose 8 – 30 Multiple Dose 11 – 42

Effective 25Mar88 - 23May89: 0 - 1



Test Name: Comprehensive Drug Screen, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Toxicology

Reference Ranges:

Comprehensive Drug Screen, Urine

Performed at Mayo Medical Labs, Rochester MN Effective 15Mar95 - present

Performed at American Medical Labs, Chantilly VA Effective 11Oct91 - 14Mar95

Performed at MetPath Labs, Rockville MD Effective until 10Oct91



Test Name: Comprehensive Virus Culture

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Comprehensive Virus Culture

Performed at American Medical Labs, Chantilly VA Effective 21Aug96 - 21Sep98



Test Name: Cooximeter Panel, Venous **Department:** Laboratory Medicine

Lab Area: Chemistry
Synonyms: Blood Gases

Reference Ranges:

Cooximeter Panel, Venous

Performed at National Institutes of Health, Bethesda MD

Effective 02Apr92 – present:

Hemoglobin, Total g/dL (SI: $g/L = 10 \times g/dL$)

Male: 12.7 – 16.7 Female: 11.1 – 15

Oxyhemoglobin % (SI: fraction = $0.01 \times \%$): 94 - 97%

Carboxyhemoglobin % (SI: fraction = $0.01 \times \%$)

Non-smoker 0.5 - 1.5

Toxic >20

Methemoglobin % (SI: fraction = $0.01 \times \%$): <2.0

Free Hemoglobin % (SI: fraction = $0.01 \times \%$): not established

Oxygen Content mL/dL not established Oxygen Capacity mL/dL not established

Oxygen Saturation % (SI: fraction = $0.01 \times \%$): not established



Test Name: Copper, Liver Tissue Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Copper, Liver Tissue µg/g dry weight

Performed at Mayo Medical Labs, Rochester MN

Effective 25Jun97 - present: 10 - 35



Test Name: Copper, Serum **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Copper, Serum $\mu g/dL$ (SI: $\mu \text{mol/L} = 0.157 \text{ x } \mu g/dL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 15Sep99 - present: 75 - 145

Performed at National Institutes of Health, Bethesda MD

Effective 03Jul96 - 14Sep99: Male 71 – 131

Female 85 - 175

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 02Jul96: 75 – 145

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 - 18Sep94: 70 - 155 Effective 04Jan89 - 19May91: 70 - 150 Effective 14Mar86 - 03Jan89: 70 - 155

Effective 01Jan79 - 13Mar86: Male 70 – 140

Female 85 - 15



Test Name: Copper, Urine Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

Copper, Urine $\mu g/24hr$ (SI: $\mu mol/d = 0.0157 \text{ x } \mu g/24hr$)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 15 - 60

Performed at SmithKline Beecham, Van Nuy CA

Effective 22Jul88 – 18Sep94: 15 – 50 Effective 14Mar86 – 06Apr88: 15 – 20 Effective 01Jan79 – 13Mar86: 15 – 50



Test Name: Cortisol Binding Globulin Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: CBG, CBGK

Reference Ranges:

Cortisol Binding Globulin mg/dL

Performed at Esoterix Endocrinology, Calabasas Hills CA Effective 12Feb03 - present

Male

0-21D 1.6-2.5 22D-12M 2.2-8.3 1Y-9Y 4.3-10.0 >=10Y 2.3-3.9 Female 0-21D 1.6-2.5 22D-12M 2.2-8.3

1Y-8Y 4.3-10.0 >=9Y 2.3-3.9



Test Name: Cortisol, 12 hr Urine **Department:** Laboratory Medicine

Lab Area: Chemistry
Synonyms: UFC

Reference Ranges:

Cortisol, 12 hr Urine

Performed at National Institutes of Health, Bethesda MD Effective 18Dec02 – present:

Cortisol, Urine Concentration $\mu g/dL$: No ranges available

Cortisol Excretion $\mu g/12hr$: No ranges available



Test Name: Cortisol, Free, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Cortisol, Free, Urine $\mu g/24hr$ (SI: nmol/d = 2.76 x $\mu g/24hr$) Performed at National Institutes of Health, Bethesda MD Effective 31Oct01 – present: 8 – 77

Performed at Mayo Medical Labs, Rochester MN
Effective 19Sep94 – 30Oct01:
>=18Y 24 – 108
<18Y Not well established. Reported upper limit of normal is 91.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Jan79 – 18Sep94: 20 – 90



Test Name: Cortisol, Free, Urine by HPLC

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Cortisol, Free, Urine by HPLC $\mu g/24hr$ (SI: nmol/d = 2.76 x $\mu g/24hr$)

Performed at Mayo Medical Labs, Rochester MN

Effective 21Aug96 - present:

1-10Y 2 - 27

11-17Y 1 - 55

>=18Y 5 - 55



Test Name: Cortisol, Saliva **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Cortisol, Saliva ng/dL SI: nmol/L = ng/dL x 0.0276 Performed at Mayo Medical Labs, Rochester MN

Effective 02Dec04 – present: 7:00-9:00 a.m.: 100-750 3:00-5:00 p.m.: 20-400 11:00 p.m. - midnight: < 100



Test Name: Cortisol, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Cortisol, Serum $\mu g/dL$ (SI: nmol/L = 27.6 x $\mu g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 17Nov99 - present: 5 - 25 (collected between 8 & 9 am)

Effective 21Feb89 – 16Nov99: 7 – 25 Effective 01Jan79 – 20Feb89: 6 – 26



Test Name: Coxsackie A Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Coxsackie A Antibody titer

Performed at Focus Technologies, Cypress CA
Effective 19Sep94 – present:
Coxsackie A Antibodies Types 2, 4, 7, 9, 10, 16 are included.
Antibody not detected <1:8
Equivocal 1:8 – 1:16

Equivocal 1:8 – 1:16 Antibody Detected >=1:32

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Coxsackie B Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Coxsackie B Antibody titer

Performed at Focus Technologies, Cypress CA Effective 19Sep94 – present: Types 1, 2, 3, 4, 5, 6 are included. Antibody not detected <1:8

Antibody not detected <1:8
Equivocal 1:8 – 1:16
Antibody Detected >=1:32

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Creatine Kinase **Department:** Laboratory Medicine

Lab Area: Chemistry
Synonyms: CK, CPK

Reference Ranges:

Creatine Kinase *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 – present:

Male 52 - 386Female 38 - 252

Effective 01Jan79 – 30Nov88:

White Male 27 - 300 White Female 21 - 147

Values higher in African Americans and joggers.

Test Name: Creatine Kinase Isoenzymes

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: CK **Reference Ranges:**

Creatine Kinase Isoenzymes % (SI: fraction activity = $0.01 \times \%$)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan89 – present:

 $\begin{array}{ccc} \text{CK-1 CK BB} & 0-0 \\ \text{CK-2 CK MB} & 0-3 \end{array}$

CK-3 CK MM 97 – 100

Effective 01Jan79 – 31Dec88:

 CK BB
 0-0

 CK MB
 0-0

 CK MM
 100-100

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Test Name: Creatine, Serum Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

Creatine, Serum w/Lloyd's Reagent mg/dL (SI: μ mol/L = 76.3 x mg/dL) Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA Effective 12Aug00 – present: 0.0 - 1.0

Performed at SmithKline Beecham, Van Nuys CA Effective 22Jul88 – 11Aug00:

Male 0.1 - 0.4Female 0.2 - 0.7

(Creatinine Male: 0.7 - 1.2 mg/dL) Creatinine Female: 0.5 - 1.0 mg/dL)

Test Name: Creatine, Urine Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

Creatine, Urine

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: mg/24hr (SI: mmol/d = 0.0076xmg/24hr) Male 0-40

Female 0-40

Performed at SmithKline Beecham, Van Nuys CA

Effective 09Mar88 - 18Sep94: g/24hr (SI: mmol/d = 7.6 x g/24hr)

Male <0.15 Female <0.25

Effective 01Jul85 – 08Mar88: g/24hr (SI: mmol/d = 7.6 x g/24hr)

 $\begin{array}{ll} \text{Male} & 0 - 0.24 \\ \text{Female} & 0 - 0.14 \end{array}$

Effective 01Jan79 to 31May85: mg/24hr (SI: mmol/d = 0.0076xmg/24hr) 10 – 100

Test Name: Creatinine Clearance **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Creatinine Clearance (Corrected) $mL/min/1.73m^2$ (SI: $mL/s/m^2 = 0.00963 \times mL/min/1.73m^2$)

Effective 06Mar99 - present:

Male 13Y-150Y 90 – 130 Female 13Y-150Y 80 – 125

Creatinine Clearance (Uncorrected) mL/min (SI: mL/s = 0.0166 x mL/min)

Effective 01Jan79 - present:

 $0Y-1Y \quad 35-65$

1Y-12Y 60-90

>=13Y 90 – 125

To correct creatinine clearance for body surface area:

Creatinine clearance in mL/min x 1.73 / patient body surface area.

To calculate patient body surface area use the appropriate formula:

(Wt in lbs x 0.45)^{0.425} x (Ht in inches x 2.54)^{0.725} / 139.315

OR

(Wt in kilograms) $^{0.425}$ x (Ht in cenitmeters) $^{0.725}$ / 139.315



Test Name: Creatinine, Peritoneal Fluid

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Creatinine, Peritoneal Fluid mg/dL

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No ranges available



Test Name: Creatinine, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Creatinine, Serum mg/dL (SI: μ mol/L = 88.4 x mg/dL) Performed at National Institutes of Health, Bethesda MD

Effective 02Jun82 – present: Female 0.7 – 1.3 Effective 01Dec88 – present: Male 0.9 – 1.4 Effective 02Jun82 – 30Nov88: Male 0.9 - 1.6

Effective 01Jan79 – 01Jun82: Male/Female 0.7 - 1.4



Test Name: Creatinine, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Creatinine, Urine *g/24hr* (SI: mmol/d = 8.84 x g/24hr) Performed at National Institutes of Health, Bethesda MD Effective 01Jun82 – present:

 $\begin{array}{ll} \text{Male} & 1-2 \\ \text{Female} & 0.8-1.8 \end{array}$

Random: No ranges established



Test Name: Cryoglobulins **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Cryoglobulins

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: Not detected



Test Name: Cryptococcus Antibody, CSF

Department: Laboratory Medicine Lab Area: Synonyms:

Reference Ranges:

Cryptococcus Antibody, CSF

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 12Jun02

Performed at SmithKline Beecham Clinical Laboratories, Van Nuys CA Effective 01Sep90 - 18Sep94



Test Name: Cryptococcus Antibody, Serum

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Cryptococcus Antibody, Serum

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 12Jun02

Performed at SmithKline Beecham Clinical Laboratories, Van Nuys CA Effective 01Sep90 - 18Sep94



Test Name: Cryptococcus Antigen, Blood

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Cryptococcal antigen

Reference Ranges:

Cryptococcus Antigen, Blood

Performed at National Institutes of Health, Bethesda MD Effective 04Mar82 – present: Negative; positives are titered

Performed at Centers for Disease Control, Atlanta GA Effective until 03Mar82: Negative; positives are titered



Test Name: Cryptococcus Antigen, CSF

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Cryptococcal Antigen

Reference Ranges:

Cryptococcus Antigen, CSF

Performed at National Institutes of Health, Bethesda MD Effective 04Mar82 – present: Negative; positives are titered

Performed at Centers for Disease Control, Atlanta GA Effective until 03Mar82: Negative; positives are titered



Test Name: Cryptosporidium Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Cryptosporidium

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Cryptosporidium species seen



Test Name: Crystal Identification, Synovial/Joint Fluid

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Crystal Identification, Synovial/Joint Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 07Feb92 – present: No crystals seen



Test Name: CSF Cell Count and Differential

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

CSF Cell Count and Differential

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present

Cell Count: RBC: 0-1/mm³ WBC: 0-5/mm³ Differential:

Neutrophils (including bands): 0-6%

Lymphocytes: 40-80%

Other Cells -- Expected Results:

Monocytoid: 15%-45%

Eosinophils, Ependymal or Choroid Plexus Lining Cells: Rare



Test Name: Cyclic Amp Nephrogenous (Obsolete)

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed as of September 1, 1998 Previously performed at SmithKline Beecham Clinical Laboratories, Van Nuys CA **Cyclic Amp Nephrogenous** $\mu mol/g$ creat (SI: nmol/mmol creat = 113.10 x μ mol/g creat) Effective 14Jan88 to 01Sep98: $0.0 - 3.1 \mu$ mol/g creat

Test Name: Cyclic Amp Urinary Excretion

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Cyclic Amp Urinary Excretion nmol/dL (SI: nmol/L of glomerular filtrate = 10 x nmol/dL of

glomerular filtrate)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 to present: 1.30 - 3.70

Also includes serum and urine creatinine results (No normals for urine creatinine).

Effective 16Jul02 - present:

Creatinine, Serum mg/dL

Males:

0-11M not established

1-2Y 0.2-0.6

3-4Y 0.3-0.7

5-9Y 0.4-0.8

10-11Y 0.5-0.9

12-13Y 0.6-1.0

14-15Y 0.7-1.1

>=16Y 0.9-1.4

Females:

0-11M not established

1-3Y 0.3-0.6

4-5Y 0.4-0.7

6-8Y 0.5-0.8

9-15Y 0.6-0.9

>=16 0.7-1.2

Effective 19Sep94 - 15Jul02:

Creatinine, Serum mg/dL

Males:

0-11M not established

1-2Y 0.2-0.6

3-4Y 0.3-0.7

5-9Y 0.4-0.8

10-11Y 0.5-0.9

12-13Y 0.6-1.0

14-15Y 0.7-1.1

>=16Y 0.8-1.2

Females:

0-11M	not established
1-3Y	0.3-0.6
4-5Y	0.4-0.7
6-8Y	0.5-0.8
>=9Y	0.6-0.9



Test Name: Cyclic AMP, Plasma **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Cyclic AMP, Plasma nmol/L (SI: nmol/L)

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 04Dec00 - present: adult 3.9 - 13.1Effective 17Apr00 - 03Dec00: adult 6.3 - 13.7

Performed at SmithKline Beecham, Van Nuys CA Effective 14Jan88 – 16Apr00:

Male 14-26Female 13-23



Test Name: Cyclic AMP, Urine Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

Cyclic AMP, Urine μmol/L (SI: μmol/L)

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 04Dec00 – present: 0.8 – 7.5 Effective 17Apr00 – 03Dec00: 0.6 – 12.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Jan88 – 16Apr00: 1.0 – 11.5



Test Name: Cyclosporine

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Cyclosporine $\mu g/L$ (SI: nmol/L = 0.832 x $\mu g/L$)

Performed at National Institutes of Health, Bethesda MD

Effective 03May95 – present:

Renal Transplant, 12 hr post 100 - 200Cardiac Transplant, 12 hr post 150 - 250Bone marrow transplant, 12 hr post 100 - 300Hepatic transplant, 12 hr post 100 - 400

Toxic >400

Performed at American Medical Labs, Chantilly VA

Effective 02Apr92 – 02May95:

Hepatic transplant, 12 hr post Renal Transplant, 24 hr post 100 - 400 Cardiac Transplant, 12 hr post 250 - 500 Toxic none listed

Performed at SmithKline Beecham, Van Nuys CA

Effective until 01Apr92:

Kidney transplant (trough) 100 - 200Other organs (trough) 200 - 300



Test Name: Cystatin C

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Cystatin C mg/L

Performed at National Institutes of Health, Bethesda MD

Effective 09Jun04 - present: 0.55 - 1.03



Test Name: Cysticercosis Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Cysticercosis Antibody

Performed at Center for Disease Control, Atlanta GA Effective 12Jun02 – present: Negative

Performed at Focus Technologies, Cypress CA Effective 19Sep94 – present: Negative

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: Negative

Peformed at American Medical Labs, Chantilly VA Effective until 31Aug90: Negative

Test Name: Cystinuria Profile, 24 hr Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Cystinuria Profile, 24 hr Urine umol/24hr

Performed at Mayo Medical Labs, Rochester MN

Effective 13Aug03 – present:

Cystine

<3Y Not established

3-15Y 11-53 >=16Y 28-115

Conversion formulas

Result in μ mol/24hr x 0.24 = result in mg/24hr

Result in mg/24hr x $4.17 = \text{result in } \mu \text{mol}/24\text{hr}$

Lysine µmol/24hr

<3Y Not established

3-15Y 19-140 >=16Y 32-290 Ornithine μmol/24hr

<3Y Not established

3-15Y 3-16 >=16Y 5-70

Arginine µmol/24hr

<3Y Not established

3-15Y 10-25 >=16Y 13-64

Effective 19Sep94 – present:

Cystine $\mu mol/g \ creat$ (SI: $\mu mol/mol \ creat = 0.113 \ x \ \mu mol/g \ creat$)

1D-30D 64 – 451 1M-5M 66 – 375 6M-11M 70 – 316 12M-23M 53 – 244 24M-35M 52 – 246

Cystine, 24hr mg/24hr (SI: $\mu mol/d = 8.32 \text{ x mg}/24hr$)

3Y-15Y 2.6-12.7 >=16Y 6.7-27.6

Performed at SmithKline Beecham, Van Nuys CA

Effective 06Oct93 – 18Sep94: 10 - 100 mg/24hr

Test Name: Cystinuria Profile, Random Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Cystine

Reference Ranges:

Cystinuria Profile, Random Urine nmol/mg Cr

Effective 13Aug03 – present:

<u>Cystine</u> nmol/mg Cr (nmol/g cr x 0.113 = μ mol/mol cr)

Premature 480-1690 1-31D 212-668 68-710 32D-24M 25M-18Y 25-125 >18Y 43-210 Lysine *nmol/mg Cr* Premature 1860-15460 1-31D 270-1850 32D-24M 189-850 153-634 25M-18Y >18Y145-634 Ornithine *nmol/mg Cr* Premature 260-3350 1-31D 118-554 32D-24M 55-364 25M-18Y 31-91 >18Y 20-80 Arginine *nmol/mg Cr* Premature 190-820 1-31D 35-214 32D-24M 38-165 25M-18Y 31-109 >18Y 10-90

Effective 19Sep94 – 12Aug03:

Cystine μ mol/g creat (SI: mmol/mol creat = 0.113 x μ mol/g creat)

1D-30D 64 – 451 1M-5M 66 – 375 6M-11M 70 – 316 12M-23M 53 – 244 24M-35M 52 – 246

Cystine, 24hr mg/24hr (SI: μ mol/d = 8.32 x mg/24hr)

3Y-15Y 2.6 – 12.7

>=16Y 6.7 – 27.6



Test Name: Cytomegalovirus Antigenemia

Department: Laboratory Medicine

Lab Area: Microbiology
Synonyms: CMV ATG

Reference Ranges:

Cytomegalovirus Antigenemia

Performed at National Institutes of Health, Bethesda MD Effective 04Aug93 – present: Negative. Positive results called to physician.



Test Name: Cytomegalovirus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: CMV **Reference Ranges:**

Cytomegalovirus Culture, Biopsy

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated



Test Name: Cytomegalovirus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: CMV **Reference Ranges:**

Cytomegalovirus Culture, Blood

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated



Test Name: Cytomegalovirus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: CMV **Reference Ranges:**

Cytomegalovirus Culture, Bone Marrow

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated



Test Name: Cytomegalovirus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: CMV **Reference Ranges:**

Cytomegalovirus Culture, Bronchial Lavage

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated



Test Name: Cytomegalovirus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: CMV **Reference Ranges:**

Cytomegalovirus Culture, Eye

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated



Test Name: Cytomegalovirus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: CMV **Reference Ranges:**

Cytomegalovirus Culture, Throat

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated



Test Name: Cytomegalovirus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: CMV **Reference Ranges:**

Cytomegalovirus Culture, Urine

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated



Test Name: Cytomegalovirus PCR **Department:** Laboratory Medicine

Lab Area: Microbiology Synonyms: CMV-PCR

Reference Ranges:

Cytomegalovirus PCR

Performed at National Institutes of Health, Bethesda MD
Effective 01Apr05 – present:
Negative for Cytomegalovirus by PCR
Low positive for Cytomegalovirus
Calculated copies of Cytomegalovirus genome equivalents per milliliter of whole blood

The following guidelines have been suggested for when to initiate treatment doses of anti-virals for CMV viremia:

- (1) perform repeat testing for low positive CMV PCR results within one week before deciding to initiate therapeutic doses of anti-virals and initiate Rx only based on a second positive;
- (2) for CMV PCR values of 1,000 calculated copies of CMV genome equivalents per ml of whole blood or greater, therapeutic doses of anti-virals for CMV should be initiated.

Effective 02Mar97 – 31Mar05: Negative for Cytomegalovirus Positive for Cytomegalovirus

Performed at Mayo Medical Labs, Rochester MN Effective 21Aug96 – 01Mar97: Negative



Test Name: Cytomegalovirus PCR **Department:** Laboratory Medicine

Lab Area: Microbiology Synonyms: CMV-PCR

Reference Ranges:

Cytomegalovirus PCR

Performed at National Institutes of Health, Bethesda MD Effective 02Mar97 – present: Negative for Cytomegalovirus by PCR

Performed at Mayo Medical Labs, Rochester MN Effective 21Aug96 – 01Mar97: Negative



Test Name: D-Cyclosporine Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

D-Cyclosporine

Performed at Centers for Disease Control, Atlanta GA No longer requested as of January 2000.



Test Name: D-dimer

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

D-dimer $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 13Oct99 - present: 0.0 - 0.5Effective 02Oct96 - 12Oct99: 0.0 - 0.4

Test Name: Dehydroepiandrosterone Sulfate

Department: Laboratory Medicine

Lab Area: Chemistry **Synonyms:** DHEA-S

Reference Ranges:

Dehydroepiandrosterone Sulfate $\mu g/mL$ (SI: $\mu mol/L = 2.7 \text{ x } \mu g/mL$)

Performed at National Institutes of Health, Bethesda MD

Effective 20Sep00 - present:

Male 0.80 - 5.60 Female 0.35 - 4.30

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 19Sep00:

Male/Female

0-30 days premature 0.25 - 10 full-term 0.25 - 2

1M-11M not established

1Y-6Y 0 - 0.49

Effective 12Jan98 - 19Sep00:

Male

7Y-19Y not established 20Y-29Y 1.04 - 4.57 30Y-39Y 0.76 - 3.34 40Y-49Y 0.55 - 2.44 50Y-59Y 0.41 - 1.78 60Y-69Y 0.3 - 1.3 >=70Y 0.0 - 0.95

Female

7Y-19Y not established 20Y-29Y 0.38 - 3.21 30Y-39Y 0.00 - 2.46 40Y-49Y 0.00 - 1.88 50Y-59Y 0.00 - 1.44 60Y-69Y 0.00 - 1.10 >=70Y 0.00 - 0.84

Effective 19Sep94 - 11Jan98:

Male >=17Y 0 - 5.9 Female >=17Y 0 - 2.9 Performed at SmithKline Beecham, Van Nuys CA Effective 14Jan88 - 18Sep94:

Male 20Y-29Y 1.4 - 7.9 30Y-39Y 1.0 - 7.0 40Y-49Y 0.9 - 5.7 50Y-59Y 0.6 - 4.1 60Y-69Y 0.4 - 3.2 >=70Y 0.3 - 2.6 Female 20Y-29Y 0.7 - 4.5 30Y-39Y 0.5 - 4.1 40Y-49Y 0.4 - 3.550Y-59Y 0.3 - 2.7 0.2 - 1.8 60Y-69Y 0.1 - 0.9

>=70Y



Test Name: Dehydroepiandrosterone Sulfate

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:DHES, DHEAS, DHSK1

Reference Ranges:

Dehydroepiandrosterone Sulfate $\mu g/dL$ (SI: $\mu mol/L = 0.027 \times \mu g/dL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 13Jan04 - present:

Adults: ug/dL

Age Male Female
18-29 89-457 44-332
30-39 65-334 31-228
40-49 48-244 18-244
50-59 35-179 <15-200
>=60 25-131 <15-157

Children: (Tanner I-IV from Elmlinger, based on Immulite data; Tanner V set to Mayo adult range)

1-14 Days: DHEA-S levels are very elevated at birth but will fall to pre-pubertal levels within a few days.

Males

*Tanner Stages: Age, mean ug/dL Stage I: pre-pubertal >14 days <15-120 Stage II: 11.5 <15-333 Stage III: 13.6 <15-312 Stage IV: 15.1 29-412 Stage V: 18.0 89-457

*Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for boys at a median age of 11.5 (+/-2) years. For boys there is no definite proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage 5 (adult) is usually reached by age 18.

Females

*Tanner Stage	s: Age, mean	ug/dL
Stage I:	pre-pubertal >14 days	16-96
Stage II:	10.5	22-184
Stage III:	11.6	<15-296
Stage IV:	12.3	17-343
Stage V:	14.5	14-332

^{*}Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for girls at a median

age of 10.5 (+/-2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. Progression through Tanner stages is variable. Tanner stage 5 (adult) is usually reached by age 18.

```
Dehydroepiandrosterone Sulfate \mu g/mL (SI: \mu mol/L = 2.7 \text{ x } \mu g/mL)
Effective 19Sep94 - 12Jan04:
Male/Female
0-30 days premature
                      0.25 - 10
                      0.25 - 2
full-term
                      not established
1M-11M
1Y-6Y
                     0 - 0.49
Effective 12Jan98 - 19Sep00:
Male
7Y-19Y
          not established
20Y-29Y
            1.04 - 4.57
            0.76 - 3.34
30Y-39Y
40Y-49Y
            0.55 - 2.44
50Y-59Y
            0.41 - 1.78
60Y-69Y
            0.3 - 1.3
          0.0 - 0.95
>=70Y
Female
7Y-19Y
            not established
20Y-29Y
            0.38 - 3.21
30Y-39Y
            0.00 - 2.46
40Y-49Y
            0.00 - 1.88
50Y-59Y
            0.00 - 1.44
60Y-69Y
            0.00 - 1.10
>=70Y
          0.00 - 0.84
Effective 19Sep94 - 11Jan98:
Male >=17Y 0 - 5.9
Female \ge 17Y - 0 - 2.9
Performed at SmithKline Beecham, Van Nuys CA
Effective 14Jan88 - 18Sep94:
Male
20Y-29Y
            1.4 - 7.9
            1.0 - 7.0
30Y-39Y
40Y-49Y
            0.9 - 5.7
50Y-59Y
            0.6 - 4.1
60Y-69Y
            0.4 - 3.2
>=70Y
            0.3 - 2.6
Female
20Y-29Y
            0.7 - 4.5
```

30Y-39Y 0.5 - 4.1 40Y-49Y 0.4 - 3.5 50Y-59Y 0.3 - 2.7 60Y-69Y 0.2 - 1.8 >=70Y 0.1 - 0.9

Test Name: Dehydroepiandrosterone, Serum

Department: Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: DHFA

Reference Ranges:

Dehydroepiandrosterone, Serum ng/dL (SI: nmol/L = 0.0347 x ng/dL)

Performed at Mayo Medical Labs, Rochester MN

Reference Ranges based on morning specimen collected before 10:30 a.m.

Effective 14Jan98 – present:

0Y-19Y not established

20Y-49Y 230 - 1280 Male

50Y-150Y 120 - 920 Male

Female 20Y-49Y 120 – 1090

Female 50Y-150Y 50-540

Performed at Esoterix Endocrinology, Calabasas Hills CA

Effective 19Sep94 – 13Jan98:

1Y-6Y 20 - 130

6Y-8Y 20 - 275

8Y-10Y 31-345

20Y-50Y 160 - 800

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Jan88 – 18Sep94:

0Y-6Y 10-72

7Y-8Y 12-150

9Y-10Y 17-182

 $11Y-12Y\ 20-585$

13Y-14Y40-542

Effective 06Jan93 – 18Sep94: Adult 130 – 1200

Effective 14Jan88 - 05Jan93: Adult 140 - 1010



Test Name: Dengue Fever Antibody Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Dengue Fever Antibody

Performed at Focus Technologies, Cypress CA Effective 19Sep94 – present: IgG <0.90

IgM < 0.90

This assay detects both IgG and IgM class antibodies against all four Dengue fever virus types. Except for very early IgM responses, the immune response to Dengue fever is not type specific. Therefore, type specific reactions are not reported.



Test Name: Deoxycorticosteroids - (Obsolete)

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed as of Mar 14, 2001 Test replaced with 11-Desoxycortisol **Deoxycorticosterone** $\mu g/dL$ (SI: nmol/L = 28.9 x $\mu g/dL$) Performed at Esoterix Endocrinology, Calabasas Hills CA Effective 19Sep94 - 13Mar01: a.m. 0 - 5

p.m. 0 - 3

Performed at SmithKline Beecham, Van Nuys CA Effective 30Jun88 - 18Sep94: Baseline < 0.8 Post Metyrapone 8 - 25

Measures 11-Deoxycortisol and Deoxycorticosteroids as a group.



Test Name: Dexamethasone **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Dexamethasone ng/dL

Performed at Esoterix Endocrinology, Calabasas Hills CA

Effective 12Feb03 – present:

Adults Baseline: <30

Drawn at 8AM following 1 mg dexamethasone the previous evening: 140-295

Drawn at 8AM following 8 mg dexamethasone (4 x 2 mg doses) the previous day: 1600-2850



Test Name: Dextromethorphan, Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: DM **Reference Ranges:**

Dextromethorphan, Serum ng/mL

Performed at Medtox Labs, St. Paul MN

Effective 10Mar04 – present:

Reporting Limit: 1.0 Reference Range: 2.0-6.0

Critical Value: 40.0



Test Name: Dialysis/Ascites Culture/Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Dialysis/Ascites Culture/Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Diazepam/Nordiazepam
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Valium

Reference Ranges:

Diazepam and Nordiazepam mg/L (SI: μ mol/L = 3.51 x mg/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 – present:

Total Therapeutic 0.4 - 1.8Total Toxic >=5.0Diazepam Therapeutic 0.2 - 0.8Nordiazepam Therapeutic 0.2 - 1.0

Performed at American Medical Labs, Chantilly VA

Effective 02Apr92 – 30May95:

Therapeutic (Total) 0.1 - 1.0Toxic (Total) >5.0

Performed at MetPath Labs, Rockville MD

Effective 31May85 - 01Apr92:

Therapeutic (Total) $100 - 1000 \,\mu\text{g/L} \, (\mu\text{g/L x} .001 = \text{mg/L})$

Toxic (Total) $>5000 \mu g/L$

Performed at National Health Labs, Vienna Va

Effective until 30May85:

Therapeutic (Total) $100 - 1000 \mu g/L (\mu g/L \times .001 = mg/L)$

Toxic (Total) $>5000 \mu g/L$



Test Name: Digitoxin

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Digitoxin ug/L (SI: nmol/L = 1.31 x ug/L) Performed at Medtox Labs, St. Paul MN Effective 19Sep94 – present: Therapeutic 11 – 23

Toxic >30

Performed at SmithKline Beecham, Van Nuys CA Effective 18Mar88 – 18Dec94:

Therapeutic 20-35Toxic >45

Test Name: Digoxin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Digoxin $\mu g/L$ (SI: nmol/L = 1.28 x $\mu g/L$) (ng/mL = $\mu g/L$) Performed at National Institutes of Health, Bethesda MD Effective 02Apr92 – present:

Therapeutic:

CHF 0.8 - 1.5

Arrythmia 1.5 - 2.0

Toxic:

Adult >2.5

Child >3.0

Performed at MetPath Labs, Rockville MD

Effective until 01Apr92:

Therapeutic 0.8 - 2.0

Toxic >2.5

Test Name: Dihydrotestosterone Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: 5-A-DHT

Reference Ranges:

Dihydrotestosterone pg/mL (SI: nmol/L = 0.0344 x pg/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 08Dec99 – present:

Male

1Y-19Y not established 20Y-39Y 150 – 1240 >=40Y 150 – 980

Female

1Y-19Y not established 20Y-39Y 50 - 250 >=40Y 50 - 137

Performed at Esoterix Endocrinology, Calabasas Hills CA

Effective 19Sep94 – 07Dec99:

Male Adult 30-85Female Adult 4-22Prepubertal children 1Y-10Y 0-2.9

Performed at SmithKline Beecham, Van Nuys CA

Effective 25Mar88 – 18Sep94:

Male 30 - 100Female 6 - 33



Test Name: Diphtheria Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Anti-Diphtheria

Reference Ranges:

Diphtheria Antibody IU/mL (SI: kU/L = 1.0 x U/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 09June04 – present: protective ab level: >= 0.1

Performed at Focus Technologies, Cypress CA Effective 19Sep94 – 08June04:

protective ab level: >= 0.01

Performed at SmithKline Beecham, Van Nuys CA

Effective 22Jul92 – 18Sep94: protective ab level: >= 0.01

Test Name: Disopyramide **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Norpace

Reference Ranges:

Disopyramide mg/L (SI: $\mu mol/L = 2.95 \text{ x mg/L}$)

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 – present:

Therapeutic 2.0 - 4.5

Arrhythmias possible <2.0

Excessive anticholinergic effects >4.5

Toxic >= 8.0

Arrhythmias may be observed at concentrations <2 mg/L, and anticholinergic side effects become excessive at concentrations >4.5 mg/L.

Performed at Americal Medical Labs, Chantilly VA

Effective 02Apr92 – 30May95:

Therapeutic:

Atrial 2.8 - 3.2

Ventricular 3.3 - 7.5

Toxic >7.5

Performed at MetPath Labs

Effective until 01Apr92 (Units of measure: $\mu g/mL = mg/L$)

Therapeutic:

Atrial 2.8 - 3.2

Ventricular 3.3 - 7.0

Toxic >7.0



Test Name: Drug Abuse Screen 12, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Toxicology

Reference Ranges:

Drug Abuse Screen 12, Urine

Performed by Mayo Medical Labs, Rochester MN

Effective 18Jan05 – present: Negative

Expected result is negative. If positive, a reflex test is automatically ordered by Mayo Medical

Labs to confirm and quantitate the individual result.

Cutoff concentrations:

Alcohol 300 ug/mL **Amphetamines** 1000 ng/mL Barbiturates 200 ng/mL Benzodiazepines 100 ng/mL Cocaine 150 ng/mL Lysergic Acid Diethylamine (LSD) 0.5 ng/mL Methadone 300 ng/mLMethaqualone 300 ng/mL**Opiates** 300 ng/mL Phencyclidine (PCP) 25 ng/mLPropoxyphene 300 ng/mL Tetrahydrocannabinol (THC) 20 ng/mL

Effective 14May03 – 17Jan05: Negative

When a drug is present, the report identifies the specific drug and concentration.

Cutoff concentrations:

Alcohol 300 ug/mL **Amphetamines** 500 ng/mL Barbiturates 200 ng/mL Benzodiazepines 100 ng/mL Cocaine 150 ng/mL Lysergic Acid Diethylamine (LSD) 0.5 ng/mLMethadone 300 ng/mL300 ng/mL Methaqualone 300 ng/mL **Opiates** Phencyclidine (PCP) 25 ng/mL Propoxyphene 300 ng/mL Tetrahydrocannabinol (THC) 15 ng/mL



Test Name: Drug Abuse Screen + Ethanol, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Toxicology

Reference Ranges:

Drug Abuse Screen + Ethanol, Urine

Performed at Mayo Medical Labs, Rochester MN

Effective 18Jan05 – present:

Negative (If positive, a reflex test is automatically ordered by Mayo Medical Labs to confirm and quantitate the individual result.)

Cutoff concentrations:

Alcohol: 300 ug/mL
Amphetamines: 1000 ng/mL
Barbiturates: 200 ng/mL
Cocaine: 150 ng/mL
Methadone: 300 ng/mL
Opiates (Morphine, Codeine): 300 ng/mL
Phencyclidine (PCP): 25 ng/mL
Propoxyphene (Darvon): 300 ng/mL

Effective 30Sep02 – 17Jan05:

Negative (Positives are reported as positive with confirmation.)

Cutoff concentrations:

Alcohol: 300 ug/mL
Amphetamines: 500 ng/mL
Barbiturates: 200 ng/mL
Cocaine: 150 ng/mL
Methadone: 300 ng/mL
Opiates (Morphine, Codeine): 300 ng/mL
Phencyclidine (PCP): 25 ng/mL
Propoxyphene (Darvon): 300 ng/mL

Effective 19Sep94 – 29Seo02:

Negative (Positives are reported as positive with confirmation.)

Cutoff concentrations:

Alcohol: 0.03 g/dL
Amphetamines: 500 ng/mL
Barbiturates: 200 ng/mL
Cocaine: 300 ng/mL
Methadone: 300 ng/mL
Opiates (Morphine, Codeine): 300 ng/mL

Phencyclidine (PCP): 25 ng/mL Propoxyphene (Darvon): 300 ng/mL

Performed at American Medical Labs 11Oct91 – 14Mar95: No ranges available

Performed at MetPath Labs until 10Oct91: No ranges available



Test Name: Drug Abuse Screen, Urine Laboratory Medicine Mayo Medical Labs

Synonyms: Toxicology, Amphetamines, Barbiturates,

Cocaine, Methadone, Opiates, Phencyclidine,

Propoxyphene

Reference Ranges:

Drug Abuse Screen, Urine

Performed at Mayo Medical Labs, Rochester MN

Effective 18Jan05 - present:

Expected result is negative. If positive, a reflex test is automatically ordered by Mayo Medical Labs to confirm and quantitate the individual result.

Cutoff concentrations:

Amphetamines: 1000 ng/mL
Barbiturates: 200 ng/mL
Cocaine/metabolite: 150 ng/mL
Methadone: 300 ng/mL
Opiates (Morphine, Codeine): 300 ng/mL
Phencyclidine (PCP): 25 ng/mL
Propoxyphene (Darvon): 300 ng/mL

Effective 30Sep02 – 17Jan05:

Negative (Positives are reported as positive with confirmation.) The specific drug will be reported.

Cutoff concentrations:

Amphetamines: 500 ng/mL
Barbiturates: 200 ng/mL
Cocaine/metabolite: 150 ng/mL
Methadone: 300 ng/mL
Opiates (Morphine, Codeine): 300 ng/mL
Phencyclidine (PCP): 25 ng/mL
Propoxyphene (Darvon): 300 ng/mL

Effective 19Sep94 – 29Sep02:

Negative (Positives are reported as positive with confirmation.) The specific drug will be reported.

Cutoff concentrations:

Amphetamines:500 ng/mLBarbiturates:200 ng/mLCocaine/metabolite:300 ng/mLMethadone:300 ng/mL

Opiates (Morphine, Codeine): 300 ng/mLPhencyclidine (PCP): 25 ng/mLPropoxyphene (Darvon): 300 ng/mL

Performed at American Medical Labs, Chantillly VA Effective 11Oct91 – 14Mar95: No ranges available



Test Name: Drug Confirmatory, GC/MS **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Drug Confirmatory test from drug screening by GC/MS

Performed at MetPath Labs, Rockville MD until 10Oct91, when it was replaced by Toxicology Profile (on serum) and Comprehensive Drug Screen on serum and urine.



Test Name: Drug Profile #1, Urine
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Tox, Amphetamines, Barbiturates,

Benzodiazepines, Cocaine, LSD Lysergic Acid Diethylamine, Opiates, PCP Phencyclidine,

THC Tetrahydrocannabinol

Reference Ranges:

Drug Profile #1, Urine

Performed at Mayo Medical Labs, Rochester MN

Effective 18Jan05 – present: Negative

Expected result is negative. If positive, a reflex test is automatically ordered by Mayo Medical

Labs to confirm and quantitate the individual result.

Cutoff concentrations:

Amphetamines 1000 ng/mL
Barbiturates 200 ng/mL
Benzodiazepines 100 ng/mL
Cocaine 150 ng/mL
Lysergic Acid Diethylamine (LSD) 0.5 ng/mL
Opiates 300 ng/mL
Phencyclidine (PCP) 25 ng/mL
Tetrahydrocannabinol (THC) 20 ng/mL

Effective 30Sep02 – 17Jan05: Negative

When a drug is present, the report identifies the specific drug and concentration.

Cutoff concentrations:

Amphetamines 500 ng/mL
Barbiturates 200 ng/mL
Benzodiazepines 100 ng/mL
Cocaine 150 ng/mL
Lysergic Acid Diethylamine (LSD) 0.5 ng/mL
Opiates 300 ng/mL
Phencyclidine (PCP) 25 ng/mL
Tetrahydrocannabinol (THC) 15 ng/mL

Effective 15Mar95 – 29Sep02: Negative

When a drug is present, the report identifies the specific drug and concentration.

Cutoff concentrations:

Amphetamines500 ng/mLBarbiturates200 ng/mLBenzodiazepines200 ng/mL

Cocaine 300 ng/mLLysergic Acid Diethylamine (LSD) 0.5 ng/mLOpiates 300 ng/mLPhencyclidine (PCP) 25 ng/mLTetrahydrocannabinol (THC) 15 ng/mL

Performed at American Medical Labs, Chantilly VA

Effective 11Oct91 – 14Mar95:

Drugs included:

Amphetamines

Barbiturates

Benzodiazepines

Cocaine and Metabs

LSD

Opiates

Phencyclidine (PCP)

THC Metabs



Test Name: Drug Screen, Urine, Qual. (DLM)

Department: Laboratory Medicine

Lab Area: Chemistry
Synonyms: Toxicology

Reference Ranges:

Drug Screen, Urine, Qual. (DLM)

Performed at National Institutes of Health, Bethesda MD

Effective 12May04 – present:

Cutoff concentrations:

Benzodiazepine: 300 ng/mL
Cocaine: 300 ng/mL
Methamphetamine: 1000 ng/mL
Opiates: 300 ng/mL
Tetrahydrocannabinol (THC): 50 ng/mL

Effective 10Apr02 – 11May04:

Cutoff concentrations:

Benzodiazepine: 100 ng/mL
Cocaine: 300 ng/mL
Methamphetamine: 500 ng/mL
Morphine: 300 ng/mL
Tetrahydrocannabinol (THC): 50 ng/mL



Test Name: EBV Panel

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Epstein Barr Virus

Reference Ranges:

EBV Panel

Performed at Mayo Medical Labs, Rochester MN Effective 11Oct01 - present:

D 1.0

Result Scenario: Interpretation:

VCA (IgG) VCA (IgM) EBNA

1 - - No previous exposure
2 + + - Recent infection
3 + - + Past infection
4 + - - Past infection

In most populations, at least 90% of the adult population will have been infected with EBV sometime in the past and, therefore, will be positive for anti-VCA-IgG and anti-EBNA. Antibodies to EBNA-1 are usually detectable only after 2-6 months after acute EBV infection. Furthermore, antibodies to EBNA-1 may never (5-10%) be demonstrable in serum specimens from some individuals. Presence of anti-VCA/IgM indicates recent primary infection with EBV.

Effective 15May97 - 10Oct01: Anti-VCA/IgG Negative Anti-VCA/IgM Negative Anti-EBNA Negative

Result Scenario: Interpretation:

VCA (IgG) VCA (IgM) EBNA

1 - - No previous exposure
2 + + - Recent infection
3 + - + Past infection
4 + - Past infection

In most populations, at least 90% of the adult population will have been infected with EBV sometime in the past and, therefore, will be positive for anti-VCA-IgG and anti-EBNA. Abs to EBNA develop 6-8 weeks after primary infection and remain present for life. Presence of anti-VCA/IgM indicates recent primary infection with EBV.



Test Name: Echinococcosis Antibody **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Echinococcosis Antibody

Performed at Center for Disease Control, Atlanta GA Effective 12Jun02 - present: Negative



Test Name: Echinococcus Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Echinococcus Antibody

Performed at Center for Disease Control, Atlanta GA Effective 12Jun02 – present: Negative

Performed at Mayo Medical Labs, Rochester MN
Effective 19Sep94 – 11Jun02:
Western Blot, IgG: Negative
Reported as Negative, Equivocal, or Reactive
A positive Western blot suggests the presence of antibodies to Echinococcus.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: Negative

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: Negative



Test Name: Echovirus Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Echovirus Antibody

Performed at Focus Technologies, Cypress CA Effective 19Sep94 – present: <1:8 Antibody not detected >= 1:8 Antibody detected

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: Negative

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: Negative



Test Name: Ehrlichia Antibody Panel
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Human Granulocytic Ehrlichiosis, E.

Chaffeensis, Tick Borne Diseases

Reference Ranges:

Ehrlichia Antibody Panel titer

Performed at Mayo Medical Labs, Rochester MN Effective 06Mar99 – present:

HGE Ab 0 - 63HME Ab 0 - 63

Test Name: Electrolyte Panel Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Electrolyte Panel *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 - present: Sodium: 135-144 *mmol/L* Potassium: 3.3 - 5.1 *mmol/L* Chloride: 99 - 107 *mmol/L* Total CO₂: 21 - 31 *mmol/L*

Effective 01Dec88 - 31Jul90:

Sodium: 135-144 *mmol/L*

Potassium: $3.3 - 5.1 \, mEq/L$ (SI: mmol/L = 1 x mEq/L Chloride: $99 - 107 \, mEq/L$ (SI: mmol/L = 1 x mEq/L) Total CO₂: $21 - 31 \, mEq/L$ (SI: mmol/L = 1 x mEq/L)

Effective 01Jan79 - 30Nov88:

Sodium: $137 - 145 \ mEq/L$ (SI: mmol/L = 1 x mEq/L Potassium: $3.3 - 4.6 \ mEq/L$ (SI: mmol/L = 1 x mEq/L Chloride: $100 - 110 \ mEq/L$ (SI: mmol/L = 1 x mEq/L) Total CO₃: $23 - 33 \ mEq/L$ (SI: mmol/L = 1 x mEq/L)

Test Name: Electrolytes, CSF **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Electrolytes, CSF *mmol/L* (SI: mmol/L = mEq/L) Performed at National Institutes of Health, Bethesda MD

SODIUM, CSF

Effective 01Aug90 - present: $138 - 150 \ mmol/L$ Effective 12Apr89 - 31Jul90: $138 - 150 \ mEq/L$ Effective 14Nov85 - 11Apr89: $136 - 150 \ mEq/L$ Effective 01Jan79 - 13Nov85: $138 - 150 \ mEq/L$

POTASSIUM, CSF

Effective 01Aug90 – present: $2.5 - 3.2 \, mmol/L$ Effective 12Apr89 - 31Jul90: $2.5 - 3.2 \, mEq/L$ Effective 14Nov85 - 11Apr89: $2.6 - 3.0 \, mEq/L$

CHLORIDE, CSF

Effective 01Aug90 – present: 118 – 132 *mmol/L* Effective 12Apr89 – 31Jul90: 118 – 132 *mEq/L* Effective 12Dec85 – 11Apr89: 118 – 130 *mEq/L* Effective 01Jan79 – 11Dec85: 118 – 132 *mEq/L*

CO₂

Effective 01Jan79 – 11Apr89: $25 - 28 \, mEq/L$ Effective 01Jan79 – 11Apr89: $20 - 25 \, mEq/L$



Test Name: Electrolytes, Feces **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Electrolytes, Feces

Performed at Mayo Medical Labs, Rochester MN

Effective 25Nov96 – present:

Feces, 24 hrs mEq/24hr (SI: mmol/d = 1.0 x mEq/24hr)

Sodium: 0.0-19.9 Potassium: 0.0-29.9 Chloride: 0.0-29.9

Feces, Random mEq/kg (SI: mmol/kg = 1.0 x mEq/kg)

Sodium: 0.0-159.9 Potassium: 0.0-199.9 Chloride: 0.0-39.9

Effective 06Nov96 – 24Nov96:

Feces, 24 hrs *mEq/24hr* Sodium: 10.0-20.0 Potassium: 5.0-20.0 Chloride: 0.0-2.0

Feces, Random *mEq/kg* Sodium: 10.0-20.0 Potassium: 5.0-20.0 Chloride: 0.0-10.0

Effective 15Mar95 – 05Nov96:

Feces, 24 hr *mEq/kg* Sodium: 10.0-20.0 Potassium: 5.0-20.0

Chloride: No ranges established

Feces, Random *mEq/kg* Sodium: 10.0-20.0 Potassium: 5.0-20.0

Chloride: No ranges established

Performed at National Institutes of Health, Bethesda MD

Effective until 15Mar95: No ranges available



Test Name: Electrolytes, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Electrolytes, Urine, 24hr mmol/24hrs

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 – present:

Sodium 40-220 Potassium 25-125 Chloride 110-250

Electrolytes, Urine, Random mmol/L

Performed at National Institutes of Health, Bethesda MD Effective 01Aug90 – present: No ranges established



Test Name: Electrophoresis, Protein , Urine

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Electrophoresis, Protein, Urine

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No proteins detectable

Test Name: Electrophoresis, Protein, CSF

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Electrophoresis, Protein, CSF *percent* (SI: Mass fraction = 0.01 x percent)

Performed at National Institutes of Health, Bethesda MD

Effective 14Nov85 – present:

Prealbumin 2 - 7 Albumin 56 - 76 Alpha 1 2 - 7 Alpha 2 4 - 12 Beta 8 - 18 Gamma 3 - 12

Effective 01Jan79 – 13Nov85:

Albumin 51 - 74 Alpha 1 3 - 8 Beta 9 - 17 Gamma 5 - 9



Test Name: Electrophoresis, Protein, Serum

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Electrophoresis, Protein, Serum g/dL (SI: $g/L = 10 \times g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 - present:

Albumin PEP 3.5 - 4.8 Alpha 1 0.1 - 0.3 Alpha 2 0.4 - 0.9 Beta 0.7 - 1.2 Gamma 0.8 - 1.8



Test Name: ENA Screen

Department: Laboratory Medicine

Lab Area: Immunology

Synonyms: Sm, RNP, SS-A, SS-B

Reference Ranges:

ENA Screen EU

Effective 19Sep01 - present:

Screen and Markers

Negative: < 20

Borderline Positive: 20 - 24

Positive: ≥ 25

Normal: Screen Negative

If positive, will do individual assay for Anti-SmRNP, Anti-Sm,

Anti-SS-A, Anti-SS-B.



Test Name: Endomysial IgA Ab
Department: Lab Area: Mayo Medical Labs
Synonyms: Celiac Disease

Reference Ranges:

Endomysial IgA Antibody

Performed at Mayo Medical Labs, Rochester MN Effective 05Feb97 – present:

Negative in normal individuals; also negative in patients w/dermatitits herpetiformis or coeliac disease who adhere to gluten-free diet.



Test Name: Endothelin I

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Endothelin I pg/mL (SI: ng/L = 1 x pg/mL)

Performed at Mayo Medical Labs, Cardiorenal Research Lab, Rochester MN

Effective 09Jun99 – present:

 $20Y-60Y \quad 4.0-10.4$



Test Name: Eosinophil Count, Total **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

This is no longer performed as a separate test. It is included in the CBC/Diff test.

Eosinophil Count, Total *cells/\mu L* (SI: 10^6 cells/L = 1000000 x cells/ μL)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – 18Sep90: 50 - 500



Test Name: Epstein-Barr Virus Early Antigen

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: EBV-EA

Reference Ranges:

EBV-EA titer

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: <1:10

Titers of ≤ 1.20 are present in up to 15% of normal population.



Test Name: Epstein-Barr Virus Quantitative PCR

Department: Laboratory Medicine

Lab Area: Microbiology
Synonyms: EBV-PCR

Reference Ranges:

Epstein-Barr Virus Quantitative PCR

Performed at National Institutes of Health, Bethesda MD Effective 13Feb02 – present: Negative for EBV by Quantitative PCR Positive for EBV by Quantitative PCR

Test Name: Erythrocyte Sedimentation Rate

Department: Laboratory Medicine

Lab Area: Hematology **Synonyms:** Sed Rate

Reference Ranges:

Erythrocyte Sedimentation Rate mm/hr

Performed at National Institutes of Health, Bethesda MD

Effective 27Sep90 – present:

Male 0-25Female 0-42

Effective 18Sep86 – 26Sep90:

Male 1-39Female 3-56

Effective 01Jan79 – 17Sep86:

Male 0-15Female 0-20



Test Name: Erythropoietin **Department:** Laboratory Medicine

Lab Area: Chemistry **Synonyms:** EPO

Reference Ranges:

Erythropoietin mU/mL (SI: IU/L = 1.0 x mU/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 08May02 - present: 5.0 - 24.6

Performed at Mayo Medical Labs, Rochester MN Effective 28Aug01 – 07May02:

Male 4.0 - 16.0

Female 4.0 - 21.0

Effective 03Jul96 - 27Aug01: 4.0 – 24.0 Effective 19Sep94 - 02Jul96: <25.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 06Jul93 - 18Sep94: <25.0 Effective 28Oct89 - 05Jul93: <19.0 Effective 14Jan88 - 27Oct89: 4 - 26



Test Name: Esterfied Retinol Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: Retinyl Esters, Retinol, Vitamin A

Reference Ranges:

Esterfied Retinol $\mu g/dL$ (SI: μ mol/L = 0.0349 x μ g/dL) Performed at National Institutes of Health, Bethesda MD

Effective 06Mar99 - present: 0.0 - 1.0



Test Name: Estradiol, Enhanced, Serum

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Estradiol-17B, E2

Reference Ranges:

Estradiol, Enhanced, Serum pg/mL (SI: pmol/L = 3.67 x pg/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 09Dec03 - present:

Adults

Males: 10-40 Females

Premenopausal: 15-350 (E2 levels vay widely through the menstrual cycle)

Postmenopausal: <10

Male Children

1-14D: Estradiol levels in newborns are very elevated at birth but will fall to prepubertal levels within a few days.

Tanner Stages:	Mean Age:	Reference Range:
Stage I (>14D and prepubertal)	7.1Y	undetectable - 13
Stage II	12.1Y	undetectable - 16
Stage III	13.6Y	undetectable - 26
Stage IV	15.1Y	undetectable - 38
Stage V	18 Y	10 - 40

Note: Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for boys at a median age of 11.5(+/-2) years. For boys there is no definitively proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage 5 (adult) should be reached by age 18.

Female Children:

Tanner Stages:	Mean Age:	Reference Range:
Stage I (>14D and prepubertal)	7.1Y	undetectable - 20
Stage II	10.5Y	undetectable - 24
Stage III	11.6Y	undetectable - 60
Stage IV	12.3Y	15 - 85
Stage V	14.5Y	15 - 350

Note: Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for girls at a median age of $10.5(\pm/2)$ years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. Progression through Tanner stages is variable. Tanner stage 5 (adult) should be reached by age 18.

Effective 01Apr99 – 8Dec03:

Female

Adult Premenopause 0-400Postmenopause 0-34Male >=16Y 0-50Male and Female <=15Y 0-9.9Male and Female Puberty Ranges vary

Effective 19Sep94 – 30Mar99:

Female

Premenopause 30 - 400
Postmenopause 0 - 30
Male >= 20Y 10 - 50
Male and Female Puberty Ranges vary

Male and Female 1M - 8Y 0 - 9

Performed at SmithKline Beecham, Van Nuys CA

Effective 04Jan89 – 18Sep94:

Female

Follicular 10 - 200
Midcycle 100 - 400
Luteal 15 - 260
Prepubertal <20
Post Menopausal <50
Male, Adult <50
Prepubertal <20

Effective 14Jan88 – 03Jan89:

Female

 Post Menopausal
 5 - 20

 Follicular
 30 - 100

 Luteal
 50 - 150

 Hormone Treatment
 350 - 750

 Male
 10 - 60



Test Name: Estradiol, Serum Laboratory Medicine

Lab Area: Chemistry **Synonyms:** Estradiol-17B, E2

Reference Ranges:

Estradiol, Serum pg/mL (SI: pmol/L = 3.67 x pg/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 17Oct01 – present:

Male >=16yrs <20 – 56

Female

Untreated postmenopausal <20-30Treated postmenopausal <20-93Oral Contraceptives <20-102Follicular Phase <20-160Follicular Phase 2-3 days <20-84Periovulatory phase ± 3 days 34-400Luteal phase 27-246

Performed at Mayo Medical Labs, Rochester MN

Effective 01Apr99 – 16Oct01:

Female

Adult Premenopause 0-400Postmenopause 0-34Male >=16Y 0-50Male and Female <=15Y 0-9.9Male and Female Puberty Ranges vary

Effective 19Sep94 – 30Mar99:

Female

Premenopause 30 - 400Postmenopause 0 - 30Male >= 20Y 10 - 50

Male and Female Puberty Ranges vary

Male and Female 1M - 8Y 0 - 9

Performed at SmithKline Beecham, Van Nuys CA

Effective 04Jan89 – 18Sep94:

Female

Follicular 10 - 200 Midcycle 100 - 400 Luteal 15 - 260 Prepubertal <20 Post Menopausal <50 Male, Adult <50 Prepubertal <20

Effective 14Jan88 – 03Jan89:

Female

 Post Menopausal
 5 - 20

 Follicular
 30 - 100

 Luteal
 50 - 150

 Hormone Treatment
 350 - 750

 Male
 10 - 60

Test Name: Estriol, Unconjugated, Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Estriol, Unconjugated, Serum ng/mL (SI: nmol/L = 3.47 x ng/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 18Jan05 – present:

Females < 0.08 Males < 0.07

Performed at Specialty Labs, Santa Monica CA

Effective 11Sep01 – 17Jan05:

Males >=16Y 0 – 0.24

Female (non-pregnant) $\geq =16Y$ 0 – 0.2

Weeks of pregnancy:

18 2.4 - 7.2

19 2.7 - 8.0

3.0 - 9.0

3.3 - 10.1

3.8 - 11.2

23 4.2 - 12.5

24 4.4 - 13.2

25 4.4 - 13.3

26 4.4 - 13.4

27 2.9 - 12.7

28 3.3 - 14.3

3.7 - 16

30 4.1 - 17.9

4.6 - 19.9

32 5.1 - 22.1

33 5.7 - 24.4

6.3 - 27 7 - 29.7

7.7 - 30

30 7.7 – 30

37 >8.5 38 >9.3

39 >10.2

10.2

40 >11.1

Effective 02Apr92 – 18Sep00:

Weeks of pregnancy:

- 18 2.4 7.2
- 19 2.7 8.0
- 3.0 9.0
- 21 3.3 10.1
- 3.8 11.2
- 4.2 12.5
- $24-28 \quad 4.4-13.5$
- 29 5.0 14.2
- 30 5.5 15.8
- 31 5.8 17.2
- 32 6.3 19.3
- 6.8 20.6
- 34 7.4 22.3
- 35 8.0 24.2
- 36 8.9 26.3
- 9.8 30.1
- 38 11.5 35.0
- $39 \quad 13.3 39.6$
- 40 14.2 43.0
- 41-42 15.0 44.0

Effective 04Jan89 – 18Sep00:

Non Pregnant, and Male 0 - 1.9

Weeks of pregnancy:

- 28-32 3.7-17.8
- 32-36 4.5-28.1
- $36-38 \quad 8.2-38.8$
- $38-40 \quad 8.6-38$

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Jan88 – 03Jan89:

Weeks of pregnancy:

- $30-32 \quad 2-12$
- $33-35 \quad 3-19$
- $36-38 \quad 5-27$
- $39-40 \quad 10-30$

Test Name: Estriol, Urine

Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Estriol, Urine $\mu g/g$ creat (SI: nmol/d = 3.47 x creat/d)

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 19Sep94 - present:

Female

Follicular 3 - 48 Midcycle 20 - 130 Luteal 9 - 60 Male 2 - 19

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Oct90 - 18Sep94:

Female

Follicular 3 - 48

Midcycle 20 - 130

Luteal 9 - 60

Male 2 - 19

Effective 04Jan89 - 30Sep90:

Female

Weeks of Pregnancy mg/24hr

16-20 1.5 - 2

20-24 2 - 5

24-28 5 - 12

28-32 7 - 14

32-36 7 - 16

36-40 9 - 24

40-44 14 - 40

Effective dates: 14Jan88 - 03Jan89

Weeks of Pregnancy mg/24hr

32 to 34 6 - 27

35 to 37 8 - 39

38 to 40 11 - 44



Test Name: Estrogens, Fractionated Laboratory Medicine Mayo Medical Labs

Synonyms: E1, E2

Reference Ranges:

Estrogens, Fractionated pg/mL

Performed at Mayo Medical Labs, Rochester MN Effective 10Mar04 – present:

Estrone, Serum pg/mL (SI: pmol/L = 3.7 x pg/mL)

Adults

Males: 10 - 60 Females:

Premenopausal 17 - 200 Postmenopausal 7 - 40

Male Children

1-14D: Estrone levels in newborns are very elevated at birth but will fall to prepubertal levels within a few days.

Tanner Stages:	Mean Age:	Reference Range:
Stage I (>14D and prepubertal)	7.1Y	undetectable - 16
Stage II	11.5Y	undetectable - 22
Stage III	13.6Y	10 - 25
Stage IV	15.1Y	10 - 46
Stage V	18 Y	10 - 60

Note: Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for boys at a median age of 11.5(+/-2) years. For boys there is no definitively proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage 5 (adult) should be reached by age 18.

Female Children:

Tanner Stages:	Mean Age:	Reference Range:
Stage I (>14D and prepubertal)	7.1Y	undetectable - 29
Stage II	10.5Y	10 - 33
Stage III	11.6Y	15 - 43
Stage IV	12.3Y	16 - 77
Stage V	14.5Y	17 - 200

Note: Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for girls at a median age of $10.5(\pm/2)$ years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. Progression through Tanner stages is variable. Tanner stage 5 (adult) should be reached by age 18.

Estradiol, Enhanced, Serum pg/mL (SI: pmol/L = 3.67 x pg/mL)

Adults

Males: 10-40 Females

Premenopausal: 15-350 (E2 levels vay widely through the menstrual cycle)

Postmenopausal: <10

Male Children

1-14D: Estradiol levels in newborns are very elevated at birth but will fall to prepubertal levels within a few days.

Tanner Stages:	Mean Age:	Reference Range:
Stage I (>14D and prepubertal)	7.1Y	undetectable - 13
Stage II	12.1Y	undetectable - 16
Stage III	13.6Y	undetectable - 26
Stage IV	15.1Y	undetectable - 38
Stage V	18 Y	10 - 40

Note: Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for boys at a median age of 11.5(+/-2) years. For boys there is no definitively proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage 5 (adult) should be reached by age 18.

Female Children:

Tanner Stages:	Mean Age:	Reference Range:
Stage I (>14D and prepubertal)	7.1Y	undetectable - 20
Stage II	10.5Y	undetectable - 24
Stage III	11.6Y	undetectable - 60
Stage IV	12.3Y	15 - 85
Stage V	14.5Y	15 - 350

Note: Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for girls at a median age of $10.5(\pm/2)$ years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. Progression through Tanner stages is variable. Tanner stage 5 (adult) should be reached by age 18.



Test Name: Estrogens, Total, Serum
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

No longer performed. Fractionated Estrogens performed.

Estrogens, Total, Serum pg/mL (SI: ng/L = 1.0 x pg/mL)

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 19Sep94 – 09Mar04:

Female:

Early Follicular 70 – 400

Late Follicular 100 – 900

Luteal Phase 70 - 700

Postmenopasue 0 - 130

Male, Adult 0 - 130

Effective 07Feb94 - 18Sep94:

Female:

 Prepubertal
 12 - 57

 Follicular
 29 - 525

 Luteal
 126 - 478

Post-Menop. 23 - 103

Male:

Prepubertal 12 - 55 Adult 38 - 139

Effective 20May91 - 06Feb94:

Female:

Follicular 61 - 394
Preovulatory 122 - 437
Luteal 156 - 350
Post-Menop. & Prepub 0 - 40
Male: 40 - 115

Effective 04Jan89 - 19May91:

Female:

Follicular 4.5 - 20 ng/dL
Preovulatory 8 - 45 ng/dL
Luteal 14 - 30 ng/dL
Prepub 0 - 3.9 ng/dL
Male: 4 - 11.6 ng/dL

Performed at SmithKline Beecham, Van Nuys CA Effective 14Jan88 - 03Jan89

Female:

Follicular 60 - 250 Midcycle 120 - 750 Luteal 75 - 450 Male: 35 - 130

Test Name: Estrogens, Total, Urine Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

Estrogens, Total, Urine $\mu g/g$ *creat* (SI: ng/L = g creat/d x μ g/g creat) Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA Effective 19Sep94 - present:

Female

Follicular 7-65Ovulatory 32-104Luteal 8-135Male 4-23

Performed at SmithKline Beecham, Van Nuys CA

Effective 23Apr90 - 18Sep94:

Female

Follicular 7-65Ovulatory 32-104Luteal 8-135Male 4-23

Effective 14Jan88 - 22Apr90:

Female

Follicular $5-25 \mu g/24hr$ Ovulatory $24-100 \mu g/24hr$ Luteal $12-80 \mu g/24hr$ Postmenopausal $0-9 \mu g/24hr$ Male $4-25 \mu g/24hr$



Test Name: Estrone, Serum **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Estrone, Serum pg/mL (SI: pmol/L = 3.7 x pg/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 09Dec03 – present:

Adults

Males: 10 - 60 Females:

Premenopausal: 17 - 200 Postmenopausal: 7 - 40

Male Children:

1-14D: Estrone levels in newborns are very elevated at birth but will fall to prepubertal levels within a few days.

Tanner Stages:	Mean Age:	Reference Range:
Stage I (>14D and prepubertal)	7.1Y	undetectable - 16
Stage II	11.5Y	undetectable - 22
Stage III	13.6Y	10 - 25
Stage IV	15.1Y	10 - 46
Stage V	18 Y	10 - 60

Note: Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for boys at a median age of 11.5(+/-2) years. For boys there is no definitively proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage 5 (adult) should be reached by age 18.

Female Children:

Tanner Stages:	Mean Age:	Reference Range:
Stage I (>14D and prepubertal)	7.1Y	undetectable - 29
Stage II	10.5Y	10 - 33
Stage III	11.6Y	15 - 43
Stage IV	12.3Y	16 - 77
Stage V	14.5Y	17 - 200

Note: Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for girls at a median age of 10.5(+/-2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. Progression through Tanner stages is variable. Tanner stage 5 (adult) should be reached by age 18.

Effective 14Jan98 – 08Dec03:

Female:

1st trimester preg. 62 - 7192nd trimester preg. 167 - 18623rd trimester preg. 1039 - 3210Postmenopausal w/ERT 40 - 346Postmenopausal w/o ERT 14 – 104 Oral contraceptive use 24 - 83Follicular phase 37 - 138Luteal phase 50 - 11460 - 229Periovulatory Male: No established reference ranges

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA Effective 19Sep94 – 13Jan98:

Female:

Early Follicular 15-150Late Follicular 100-250Luteal Phase 15-200Postmenopasue 15-55Male, Adult 15-65

Performed at SmithKline Beecham, Van Nuys CA

Effective 30Jun88 – 18Sep94:

Female:

Follic 30 - 100Ovul >150Luteal 90 - 160Postmen 20 - 40Male 10 - 50



Test Name: Estrone, Urine
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Estrone, Urine $\mu g/g$ *creat* (SI: nmol/d = g creat/d x 3.7 x $\mu g/g$ creat) Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA Effective 19Sep94 – present:

Males

2-10Y 0.0-1.2 11-17Y 0.0-3.1 18+Y 2.0-8.0

Females

2-10Y 0.0-1.2 11-17Y 0.0-16.0

Adults

Follicular 2-39Midcycle 11-46Luteal 3-52

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Oct90 – 18Sep94:

Female

Follicular 2-39Midcycle 11-46Luteal 3-52Male 2-8

Effective 11Apr88 – 30Sep90:

Female $\mu g/24hr$ Follicular 4-7Midcycle 11-31Luteal 10-23Postmenopause 1-7Male 4-23



Test Name: Ethanol

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Ethyl Alcohol

Reference Ranges:

Ethanol g/dL (SI: mmol/L = 217 x g/dL)

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 – present:

Negative < 0.01

Degrees of Intoxication 0.05 - 0.09

True Intoxication 0.1 - 0.19

Toxic ≥ 0.2

Performed at American Medical Labs, Chantilly VA

Effective 02Dec92 – 30May95:

Negative < 0.01

Degrees of Intoxication 0.05 - 0.1

True Intoxication 0.11 - 0.3

Coma Likely 0.31 - 0.4

Death Possible > 0.40

Performed at MetPath Labs, Rockville MD until 01Dec92.



Test Name: Ethosuximide Laboratory Medicine

Lab Area: Mayo Medical Labs **Synonyms:** Zarontin

Synonyms: Zai **Reference Ranges:**

Ethosuximide mg/L (SI: μ mol/L = 7.08 x mg/L) (mg/L = ug/mL) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: Therapeutic 40 – 75

Therapeutic 40 - 7. Toxic >=100

Performed at SmithKline Beecham, Van Nuys CA Effective 03Oct89 – 18Sep94: Therapeutic 40 – 100 ug/mL Toxic >150



Test Name: Eye Sterile Fluid Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Eye Sterile Fluid Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present

Gram Stain: No WBCs, No organisms seen

Culture: No growth or normal flora.

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Factor II

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Factor II

Performed at National Institutes of Health, Bethesda MD Effective 07Jul94 – present: 60 - 150 %



Test Name: Factor IX

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Factor IX

Performed at National Institutes of Health, Bethesda MD Effective 07Jul94 – present: 60 - 150 %



Test Name: Factor V

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Factor V

Performed at National Institutes of Health, Bethesda MD

Effective 07Jul94 – present: 55 - 140 %



Test Name: Factor V Leiden Mutation Analysis

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms: Hereditary Resistance to Activated Protein C,

Factor V R506Q mutation

Reference Ranges:

Factor V Leiden Mutation Analysis

Performed at National Institutes of Health, Bethesda MD

Effective 07Jul94 – present: No ranges available



Test Name: Factor VII

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Factor VII

Performed at National Institutes of Health, Bethesda MD Effective 07Jul94 – present: 55 - 160 %



Test Name: Factor VIII

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Factor VIII %

Performed at National Institutes of Health, Bethesda MD

Effective 15Sep99 - present: 55 - 175

Effective 0Jun94 - 14Sep99: 50 - 150



Test Name: Factor VIII Inhibitor **Department:** Laboratory Medicine

Lab Area: Hematology **Synonyms:** Bethesda

Reference Ranges:

FVIII Inhibitor Bethesda Units

Performed at National Institutes of Health, Bethesda MD

Effective 24Jul02 – present: <0.5

Effective 02Jun94 – 23Jul02: No range available



Test Name: Factor X

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Factor X

Performed at National Institutes of Health, Bethesda MD

Effective 07Jul94 – present: 60 - 150 %



Test Name: Factor XI

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Factor XI

Performed at National Institutes of Health, Bethesda MD Effective 07Jul94 – present: 60 - 150 %



Test Name: Factor XII

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Factor XII

Performed at National Institutes of Health, Bethesda MD Effective 07Jul94 – present: 60 - 150 %

Test Name: Fatty Acid Profile, Essential

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: FAP **Reference Ranges:**

Fatty Acid Profile, Essential µmol/L

Performed at Mayo Medical Labs, Rochester MN Effective 29Aug00 – present:

Lauric Acid

 $\begin{array}{ccc} 1D\text{-}1M & 6-190 \\ 2M\text{-}1Y & 6-190 \end{array}$

2Y-17Y 5-80

18Y-150Y 6-90

Myristic Acid

 $\begin{array}{ll} \text{1D-1M} & 30-320 \\ \text{2m-1Y} & 30-320 \\ \text{2Y-17Y} & 40-290 \\ \text{18Y-150Y} & 30-450 \end{array}$

Hexadecenoic Acid

1D-1M 21 - 69 2m-1Y 21 - 69 2Y-17Y 24 - 82 18Y-150Y 25 - 105

Palmitoleic Acid

1D-1M 20 - 1020 2M-1Y 20 - 1020 2Y-17Y 100 - 670 18Y-150Y 110 - 1130

Palmitic Acid

1D-1M 720 - 3120 2M-1Y 720 - 3120 2Y-17Y 960 - 3460 18Y-150Y 1480 - 3730

g-Linolenic Acid

1D-1M 6 – 110 2M-1Y 6 – 110

2Y-17Y	9 - 130
18Y-150Y	16 - 150

a-Linolenic Acid

1D-1M	10 - 190
2M-1Y	10 - 190
2Y-17Y	20 - 120
18Y-150Y	50 - 130

Linoleic Acid

1D-1M	350 - 2660
2M-1Y	1000 - 3300
2Y-17Y	1600 - 3500
18Y-150Y	2270 - 3850

Oleic Acid

1D-1M	250 - 3500
2M-1Y	250 - 3500
2Y-17Y	350 - 3500
18Y-150Y	650 - 3500

Vaccenic Acid

1D-1M	140 - 720
2M-1Y	140 - 720
2Y-17Y	320 - 900
18Y-150Y	280 - 740

Stearic Acid

1D-1M	270 - 1140
2M-1Y	270 - 1140
2Y-17Y	280 - 1170
18Y-150Y	590 - 1170

EPA, C20:5w3 (Eicosapentaenoic Acid)

1D-1M	2 - 60
2M-1Y	2 - 60
2Y-17Y	8 - 90
18Y-150Y	14 - 100

Arachidonic Acid

1D-1M	110 - 1110
2M-1Y	110 - 1110
2Y-17Y	350 - 1030
18Y-150Y	520 - 1490

Mead Acid

1D-1M	8 - 60
2M-1Y	3 - 24
2Y-17Y	7 - 30
18Y-150Y	7 - 30

Homo-g-Linolenic Acid

1D-1M	30 - 170
2M-1Y	30 - 170
2Y-17Y	60 - 220
18Y-150Y	50 - 250

Arachidic Acid

1D-1M	30 - 120
2M-1Y	30 - 120
2Y-17Y	30 - 90
18Y-150Y	50 - 90

DHA, C22:6W3 (Docosahexaenoic Acid)

1D-1M	10 - 220
2M-1Y	10 - 220
2Y-17Y	30 - 160
18Y-150Y	30 - 250

DPA, C22:5w6

1D-1M	3 - 70
2M-1Y	3 - 70
2Y-17Y	10 - 50
18Y-150Y	10 - 70

DPA, C22:5w3

1D-1M	6 - 110
2M-1Y	6 - 110
2Y-17Y	30 - 270
18Y-150Y	20 - 210

DTA, C22:4w6

1D-1M	2 - 50
2M-1Y	2 - 50
2Y-17Y	10 - 40
18Y-150Y	10 - 80

Docosenoic Acid

1D-1M	2 - 20
2M-1Y	2 - 20
2Y-17Y	4 - 20
18Y-150Y	4 - 13

Nervonic Acid

1D-1M 30 - 150 2M-1Y 30 - 150 2Y-17Y 50 - 130 18Y-150Y 60 - 100

Triene Tetraene Ratio

1D-1M 0.017 – 0.083 ratio 2M-1Y 0.013 – 0.050 ratio 2Y-17Y 0.013 – 0.050 ratio 18Y-150Y 0.010 – 0.038 ratio

Total Saturated Acid

1D-1M 1.2 – 4.6 2M-1Y 1.2 – 4.6 2Y-17Y 1.4 – 4.9 18Y-150Y 2.5 – 5.5

Total Monounsaturated Acid

1D-1M 0.3 – 4.6 2M-1Y 0.3 – 4.6 2Y-17Y 0.5 – 4.4 18Y-150Y 1.3 – 5.8

Total Polyunsaturated Acid

1D-1M 1.1 – 4.9 2M-1Y 1.1 – 4.9 2Y-17Y 1.7 – 5.3 18Y-150Y 3.2 – 5.8

Total Omega 3 FA

1D-1M 0.0 - 0.4 2M-1Y 0.0 - 0.4 2Y-17Y 0.1 - 0.5 18Y-150Y 0.2 - 0.5

Total Omega 6 FA

1D-1M 0.9 – 4.4 2M-1Y 0.9 – 4.4 2Y-17Y 1.6 – 4.7 18Y-150Y 3.0 – 5.4

Total Fatty Acids

1D-1M 3.3 – 14.0 2M-1Y 3.3 – 14.0 2Y-17Y 4.4 – 14.3 18Y-150Y 7.3 – 16.8

Effective 09Oct96 – 28Aug00: *percent* (SI: fraction = .01 x percent)

Laurate

 $\begin{array}{cc} 0Y\text{-}9Y & 0.02-0.43 \\ 10Y\text{-}150Y & 0.01-0.20 \end{array}$

Myristate

0Y-9Y 0.40 - 1.70 10Y-150Y 0.30 - 1.30

Palmitate

0Y-9Y 16.70 - 25.90 10Y-150Y 17.10 - 22.60

Palmitoleate

0Y-9Y 0.80 - 5.30 10Y-150Y 1.00 - 3.30

Phytanate

0Y-9Y 0.00 - 0.07 10Y-150Y 0.00 - 0.09

Stearate

0Y-9Y 5.00 - 8.60 10Y-150Y 5.60 - 8.30

Oleate

0Y-9Y 15.50 - 30.70 10Y-150Y 14.30 - 23.80

Linoleate

0Y-9Y 16.40 – 35.60 10Y-150Y 26.80 – 37.70

Linolenate-w6

0Y-9Y 0.10 - 1.60 10Y-150Y 0.10 - 0.70

Linolenate-w3

0Y-9Y 0.20 - 1.20 10Y-150Y 0.20 - 1.00

Arachidate

0Y-9Y 0.14-0.39

03/29/2005 Page 406 $10Y-150Y \quad 0.14-0.32$

Arachidonate

0Y-9Y 3.50 - 9.40 10Y-150Y 4.00 - 12.00

Eicosapentaenoate-w3
0Y-9Y 0.10 - 0.90
10Y-150Y 0.10 - 0.60

Docosatetraenoate-w6 0Y-9Y 0.20 - 0.70 10Y-150Y 0.20 - 0.40

Docosapentaenoate-w6 0Y-9Y 0.10 - 0.70 10Y-150Y 0.10 - 0.40

 $\begin{array}{lll} Docosapentaenoate-w3 \\ 0Y-9Y & 0.20-0.70 \\ 10Y-150Y & 0.20-0.60 \end{array}$

Docosahexenoate-w3 0Y-9Y 0.70 - 3.30 10Y-150Y 0.60 - 2.00

Triene-Tetraene Ratio 20:3w9/20:4w6 0Y-9Y 0.003 - 0.14610Y-150Y 0.014 - 0.06220:3w6/20:4w6 0Y-9Y 0.084 - 0.50610Y-150Y 0.109 - 0.39(20:3w9+20:3w6)/20:4w6 0Y-9Y 0.097 - 0.55610Y-150Y 0.128 - 0.435



Test Name: FDP

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms: Fibrin Split Product

Reference Ranges:

FDP $\mu g/mL$ (SI: mg/L = 1 x μ g/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 13Oct99 - present: 0 - 5.0

Effective 02Oct96 – 12Oct99: 0 – 4.9



Test Name: Febrile Aggutinins **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Febrile Aggutinins

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Fecal Fat, Qualitative
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Sudan Red Stain

Reference Ranges:

No longer performed Sudan Red Stain as of Sept. 9, 2004. Mayo performs a Fecal Fat Quantitative Random by NMR. See that test.

Fecal Fat, Qualitative droplets/HPF

Performed at Focus Technologies, Cypress CA

Effective 01Feb96 – 08Sep04:

Fats, Neutral: Normal (<60 droplets/HPF)

Fats, Total (includes neutrals, soaps, and fatty acids: Normal (<100 droplets/HPF)

Pathological increase in stool fat is referred to as steatorrhea. Patients with steatorrhea of pancreatic origin are likely to show greater increases in neutral fat, while those with enterogenous steatorrhea (impaired intestinal absorption) are likely to show greater increases in total fats.

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – 31Jan96

Performed at SmithKline Beecham, Van Nuys CA Effective 01Jul92 – 18Sep94

Performed at MetPath Labs, Rockville MD Effective until 30Jun92



Test Name: Fecal Fat, Quantitative, Random

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Fecal Fat, Quantitative, Random percent (%)

Performed at Mayo Medical Laboratories, Rochester MN Effective 09Sep04 – present: Normal Range: <20% fat

Note: This test replaced Fecal Fat, Qualitative, that was performed by Sudan Red Stain by Quest Diagnostics.



Test Name: Fecal Fat, Total, Quantitative

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Fecal Fat, Total, Quantitative

Performed at Mayo Medical Labs, Rochester MN Effective 15Mar95 – present: Total Fat g/24h (SI: $g/d = 1.0 \times g/24hr$) 2-7

Effective 06Mar99 – 13Mar02 (no longer reported after this date):

%Fat % (SI: fraction = .01 x percent) 0-19

Peformed at American Medical Labs, Chantilly VA

Effective Oct91 – 14Mar95: 1 - 5 g/24h

Performed at MetPath Labs, Rockville MD Effective 01Jan79 – 30Oct91: 1 – 7 g/24h

Test Name: Ferritin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Ferritin $\mu g/L$ (SI: $\mu g/L$)

Performed at National Institutes of Health, Bethesda MD

Effective 30Aug00 – present:

 $\begin{array}{ll} \text{Male} & 18 - 370 \\ \text{Female} & 9 - 120 \end{array}$

Effective 18Oct95 – 29Aug00:

Male 10 - 300Female 10 - 125

Effective 01Sep93 – 17Oct95:

Male 7 - 300Female 5 - 125

Effective 06Mar85 – 31Aug93:

Male 17 - 300Female 15 - 246



Test Name: Fetal Hemoglobin Laboratory Medicine

Lab Area: Hematology

Synonyms: hgb, hb, Hgb F, Fetal Hgb

Reference Ranges:

Fetal Hemoglobin

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: 0 - 2 %



Test Name: Fibrinogen

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Fibrinogen mg/dL (SI: g/L = 0.01 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Fibrinogen Auto:

Effective 20Jan99 – present: 168 – 458 Effective 08May96 – 19Jan99: 158 – 428 Effective 06Jun85 – 07May96: 160 - 346

Fibrinogen Fibrometer:

Effective 20Jan99 – present: 190 – 457 Effective 01Jan79 – 19Jan99: 186 – 365



Test Name: Filaria IgG4 Ab **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Filaria IgG4 Antibody

Performed at Focus Diagnostics, Cypress CA Effective 26Apr02 - present: <1.00

Interpretation:

< 1.00 Antibody not detected

1.00 - 4.00 Antibody Detected; may reflect cross reactivity due to other parasitic infections(ie., trichinosis, echinococcosis, schistosomiasis)

>4.00 Antibody detected; strongly



Test Name: Filariasis Antibody (Obsolete)

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Filaria Antibody IgG4 replaced this test.

Filariasis Antibody

Performed at Specialty Labs, Santa Monica CA Effective 06Mar99 - 25Apr02:

IgG 0 - 1.9 IgM 0 - 1.9

Effective 19Sep94 - 05Mar99: No ranges available

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug00: No ranges available



Test Name: Fluid Culture/ Gram Stain Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Fluid Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Fluoxetine / Norfluoxetine **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Prozac

Reference Ranges:

Fluoxetine / Norfluoxetine ng/mL (SI: ug/L = 1.0 x ng/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 13Mar02 – present:

Therapeutic Range: Fluoxetine + Norfluoxetine: 200 – 1100 ng/mL

Interpretation

Because fluoxetine is typically administered in doses of 20-80 mg/day and because of individual variations in drug metabolism and clearance, the normal range is broad.



Test Name: Folate

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Folate ng/mL (SI: nmol/L = 2.265 x ng/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 18Oct95 – present: 3.0 – 30.0 Effective 30Oct86 – 17Oct95: 3.0 – 11.0 Effective 07Aug79 – 29Oct86: 2.0 – 14.0 Effective 01Jan79 – 06Aug79: 2.3 – 14.0



Test Name: Folate Reductase, Labile Laboratory Medicine

Lab Area: Hematology

Synonyms: 5-10 methylenetetrahydrofolate Reductase

(MTHFR) Mutation Analysis MTHFR C677T variant, Thermolabile MTHFR, Folate

Reduct-labile

Reference Ranges:

Labile Folate Reductase

Performed at National Institutes of Health, Bethesda MD

Effective 13Jun01 – present:

An interpretive report will indicate whether or not results are consistent with a diagnosis of thermolabile MTHFR.



Test Name: Folate, RBC

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Folate, RBC ng/mL (SI: nmol/L = 2.265 x ng/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 14Jun00 – present: 93 – 750 Effective 18Oct95 – 13Jun00: 155 – 600 Effective 30Oct86 – 17Oct95: 200 – 470 Effective 07Aug79 – 29Oct86: 200 – 800 Effective 01Jan79 – 06Aug79: >140

Test Name: Follicle Stimulating Hormone

Department: Laboratory Medicine

Lab Area: Chemistry **Synonyms:** FSH

Reference Ranges:

Follicle Stimulating Hormone U/L (SI: U/L = mIU/mL)

Performed at the National Institutes of Health, Bethesda MD

Effective 01Sep93 – present:

Males: 1-12

Females:

Follicular 3-15Mid-Cycle >9Luteal 2-9

Postmenopausal 20-131

Effective 01May91 – 31Aug93:

Prepubescent male and females: $0 - 9.9 \, mIU/mL$

Males: $7 - 20 \, mIU/mL$

Females:

Follicular $6-23 \ mIU/mL$ Ovulatory $18-46 \ mIU/mL$ Luteal $2-19 \ mIU/mL$ Postmenopausal $>25 \ mIU/mL$

Performed at SmithKline Beecham, Van Nuys CA

Effective 03Jan89 – 01May91:

Prepubescent male and females: $0 - 9.9 \, mIU/mL$

Males: $7 - 20 \, mIU/mL$

Females:

Follicular $6-23 \ mIU/mL$ Ovulatory $18-46 \ mIU/mL$ Luteal $2-19 \ mIU/mL$ Postmenopausal >25 mIU/mL



Test Name: Foreign Body Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Foreign Body Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present:

No growth

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Fragile X, Molecular Analysis

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Fragile X, Molecular Analysis

Performed at Mayo Medical Labs., Rochester MN Effective03Jul96 – present: An interpretive report will be issued.



Test Name: Free Fatty Acids, Total Laboratory Medicine

Lab Area: Chemistry

Synonyms: FFA **Reference Ranges:**

Free Fatty Acids $\mu Eq/L$ (SI: mmol/L = 0.0011 x μ Eq/L) Performed at National Institutes of Health, Bethesda MD

Effective 11Apr01 – present: 0 – 839 Effective 21Apr98 – 10Apr01: 0 – 729 Effective 05Oct94 – 20Apr98: 239 – 843



Test Name: Fungal Blood Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Nocardia,

Malasezzia, Fungus culture

Reference Ranges:

Fungal Blood Culture

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Fungus Culture: No growth of fungus in 4 weeks. Nocardia Culture: No growth of Nocardia in 4 weeks. Malasezzia Culture: No growth of Malasezzia in 4 weeks.



Test Name: Fungal Bone Marrow Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Fungus culture

Reference Ranges:

Fungal Bone Marrow Culture

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Fungus Culture: No growth of fungus in 4 weeks



Test Name: Fungal Serology (Protocol)
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Fungal Serology

Performed at Mayo Medical Labs, Rochester MN Effective 26Jun02 - present:

Negative; if positive, results are titered. Report will indicate significant titers.

NOTE: Antibodies to blastomyces, coccidioides, and histoplasma and antigen to cryptococcus are all measured and reported as if each had been ordered alone.

Effective 19Sep94 - 25Jun02: Negative; if positive, results are titered. Report will indicate significant titers.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: Negative; if positive, results are titered.

Performed at American Medical Labs, Chantilly VA Effective 02Mar86 - 31Aug90: No ranges available

Performed at the Centers for Disease Control, Atlanta GA Effective until 01Mar86: No ranges available



Test Name: Fungus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology Culture, Nocardia

Reference Ranges:

Fungus Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present:

Lung autopsy: No growth of fungus or Nocardia sp. in 2 weeks

Non-lung autopsy: No growth of fungus in 2 weeks

All fungi and Nocardia identified.



Test Name: Fungus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Mycology culture

Reference Ranges:

Fungus Culture, Spinal Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No growth of fungus in 4 weeks



Test Name: Fungus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Mycology culture

Reference Ranges:

Fungus Culture, Anterior Nares

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present:

Fungus Culture: No growth of fungus in 2 weeks



Test Name: Fungus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Mycology culture

Reference Ranges:

Fungus Culture, Urine

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:



Test Name: Fungus Culture Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Fungus Culture, Eye

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: Fungus Culture for Conjunctiva, eyelid: No growth of fungus in 2 weeks

rungus Culture for Conjunctiva, eyend. No growth of fungus in 2 weeks

Fungus Culture for Anterior chamber fluid, vitreous fluid, and corneal scrapings: No growth of fungus in 4 weeks.



Test Name: Fungus Culture (includes isolation of

Nocardia)

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Mycology culture

Reference Ranges:

Fungus Culture, Bronchial Brush

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Fungus Culture: No growth of fungi or Norcardia in 4 weeks



Test Name: Fungus Culture (includes isolation of

Nocardia)Wet Mount/Modified Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Calcofluor white stain, MAF, Mycology culture

Reference Ranges:

Fungus Culture (includes isolation of Nocardia)Wet Mount/Modified Acid-Fast Stain, Bronchial Lavage

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Modified Acid-Fast stain: No modified acid-fast bacilli seen

Wet mount: Negative for fungi

Culture: No growth of fungus or Nocardia in 4 weeks.



Test Name: Fungus Culture(includes isolation of

Nocardia)/ Wet Mount/ Modified Acid Fast

Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain,MAF

Reference Ranges:

Fungus Culture (includes isolation of Nocardia)Wet Mount/Modified Acid-Fast Stain, Sputum

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet mount: No fungi seen

Culture: No growth of fungus or Nocardia sp. in 4 weeks

MAF stain:No modified acid-fast bacilli seen



Test Name: Fungus Culture(includes isolation of

Nocardia)/ Wet mount/Modified Acid-fast

stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain, MAF

Reference Ranges:

Fungus Culture (includes isolation of Nocardia)Wet Mount/Modified Acid-Fast Stain, Trachial Aspirate and Transtracheal

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet mount: No fungi seen.

MAF stain:No modified acid-fast bacilli seen.

Culture: No growth of fungus or Nocardia sp. in 4 weeks



Test Name: Fungus Culture(includes isolation of

Nocardia)/Wet Mount, Modified Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Calcofluor white stain, MAF, Mycology culture

Reference Ranges:

Fungus Culture (includes isolation of Nocardia)Wet Mount/Modified Acid-Fast Stain, Bronchial Wash

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

MAF stain: Modified Kinyoun for Nocardia

Wet mount: Negative for fungi

Culture: No growth or fungus or Nocardia sp. in 4 weeks



Test Name: Fungus Culture/ Nocardia/Wet Mount/

Modified Acid Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology Culture, MAF, Calcofluor white stain

Reference Ranges:

Fungus Culture (includes isolation of Nocardia)Wet Mount/Modified Acid-Fast Stain, Biopsy

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

MAF stain: No modified acid fast bacilli seen

Wet mount: No fungi seen

Fungus: No growth of fungus in 4 weeks

Nocardia culture: No Nocardia species isolated



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Calcofluor white stain, Mycology culture,

Nocardia

Reference Ranges:

Fungus Culture /Wet Mount, Abscess

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet Mount: Negative for fungi.



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture /Wet Mount, Drainage

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet Mount: No fungi seen



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture/Wet Mount, Esophageal Brushing

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet Mount: No fungi seen



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture /Wet Mount, Hair

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet Mount: No fungi seen



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture /Wet Mount, Joint Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet mount: No fungi seen



Test Name: Fungus Culture/ Wet mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture /Wet Mount, Nails

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet Mount: No fungi seen



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture /Wet Mount, Pericardial Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet Mount: No fungi seen.



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture /Wet Mount, Peritoneal Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet Mount: No fungi seen



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain,

Nocardia

Reference Ranges:

Fungus Culture /Wet Mount, Pleural Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet mount: No fungi seen



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture /Wet Mount, Prostatic Massage Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet mount: No fungi seen



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture/Wet Mount, Sinus

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet mount: No fungi seen



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture/Wet Mount, Skin Lesion

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet mount: No fungi seen



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture/Wet Mount, Skin Scraping

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet mount: No fungi seen



Test Name: Fungus Culture/ Wet Mount

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Mycology culture, Calcofluor white stain

Reference Ranges:

Fungus Culture/Wet Mount, Wound

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Wet mount: No fungi seen



Test Name: Gabapentin

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Neurontin

Reference Ranges:

Gabapentin $\mu g/mL$ (SI: mg/L = μ g/mL x 1.0) Performed at Mayo Medical Labs, Rochester MN Effective 15Sep99 – present:

Therapeutic 2-12Toxic >=25



Test Name: GAD65 Ab Assay **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Glutamic Acid Decarboxylase Antibody Assay

Reference Ranges:

GAD65 Ab Assay nmol/L

Performed at Mayo Medical Labs, Rochester MN

Effective 08Dec99 – present: <=0.02

Interpretation:

Values > or = 0.03 nmol/L are consistent with susceptibility to autoimmune (type 1) diabetes, and related endocrine disorders (thyroiditis and pernicious anemia).

Values > or = 20 nmol/L are found in stiff-man syndrome and in realted autoimmune neurologic disorders (e.g. acquired cerebellar ataxia).

Values in patients who have type 1 diabetes with an autoimmune neurologic syndrome are usually <20 nmol/L.



Test Name: Galactosylceramide Beta-Galactosidase,

Fibroblast

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Cerebroside Beta-Galactoside, Krabbe's

Disease

Reference Ranges:

Galactosylceramide Beta-Galactosidase, Fibroblast mU/g of cellular protein

Performed at Mayo Medical Labs, Rochester MN

Effective 09Oct96 – present: 10.3 – 89.7

Test Name: Gamma Glutamyl Transferase

Department: Laboratory Medicine

Lab Area: Chemistry
Synonyms: GGT
Reference Ranges:

Gamma Glutamyl Transferase *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 06Dec95 – present:

Male 11-52Female 7-38

Effective 06Oct93 – 05Dec95: Male & Female 14 – 84

Effective 08Jan81 – 05Oct93:

Male 10-106Female 7-52

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jan79 – 07Jan81:

Male 0-27Female 0-17



Test Name: Gastrin

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Gastrin pg/mL (SI: $ng/L = pg/mL \times 1.0$)

Performed at Mayo Medical Labs, Rochester MN

Effective 31Aug04 - present: 0 - 99Effective 19Sep94 - 30Aug04: 0 - 200

Performed at SmithKline Beecham, Van Nuys CA

Effective 24Mar81 - 18Sep94: 0 - 100

Performed at MetPath Labs, Rockville MD Effective 01Jan79 – 23Mar81: 50 – 170



Test Name: Gastroccult, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Gastroccult, Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 01Mar99 – present: Negative

Test Name: Gentamicin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Gentamicin mg/L (SI: $\mu mol/L = 2.09 \text{ x mg/L}$)

Performed at National Institutes of Health, Bethesda MD

Effective 02Apr92 – present:

Therapeutic:

Pre <2

Post 5-10

Toxic:

Post >10

Effective until 01Apr92:

Therapeutic:

Pre <2

Post 4-10

Toxic:

Post >10



Test Name: Giardia EIA

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Giardia EIA

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Negative

Test Name: Gliadin Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Celiac Disease

Reference Ranges:

Gliadin Antibodies IgG and IgA EU (SI: kIU/L = EU x 1.0)

Performed at Mayo Medical Labs, Rochester MN

Effective 22Jan04 – present:

Negative

1D-35M 0-20 36M-150Y 0-25

Equivocal

1D-35M 20.1 – 24.9 36M-150Y 25.1 – 49.9

Positive

1D-35M >=25 36M-150Y >=50

Effective 20Aug01 – 21Jan04:

Negative

 $1D-23M \quad 0-49.9$

23M-150Y 0-24.9

Weakly Positive

1D-23M 50-100

23M-150Y 25-50

Positive

1D-23M >100

23M-150Y >50

Effective 10May00 - 19Aug01: U/mL (SI: kIU/L = U/mL x 1.0)

Negative

 $1D-23M \quad 0-49.9$

23M-150Y 0-24.9

Weak Positive

1D-23M 50-100

23M-150Y 25-50

Positive

1D-23M >100

23M-150Y >50



Test Name: Glucagon

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Glucagon pg/mL (SI: ng/L = pg/mL x 1.0)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 0 - 60

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Jan88 - 18Sep94: 50 - 200



Test Name: Glucose-6-Phosphate Dehydrogenase Screen

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms: G6PD, Erythrocyte G6PD Screen

Reference Ranges:

Glucose-6-Phosphate Dehydrogenase Screen

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Normal



Test Name: Glucose Quantitative, Urine

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Glucose Quantitative, Urine g/24hr (SI: mmol/d = 5.55 x g/24hr)

Performed at National Institutes of Health, Bethesda MD

Effective 20Jan99 – present: 24 hr: <0.5

Random: Negative

Effective 29Nov85 - 19Jan99: 24 hr: 0.0 - 0.5

Random: Negative



Test Name: Glucose, CSF

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Glucose, CSF *mg/dL* (SI: mmol/L = 0.0555 x mg/dL) Performed at National Institutes of Health, Bethesda MD

Effective 12Apr89 – present:: 40 – 70 Effective 14Nov85 – 11Apr89: 50 – 80 Effective 01Jan79 – 13Nov85: 40 – 75



Test Name: Glucose, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Glucose, Fluid mg/dL (SI: mmol/L = 0.0555 x mg/dL) Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No ranges available



Test Name: Glucose, Plasma Laboratory Medicine

Lab Area: Chemistry **Synonyms:** Plasma Glucose

Reference Ranges:

Glucose, Plasma mg/dL (SI: mmol/L = 0.0555 x mg/dL) Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 – present: 70 – 115 Effective 01Jan79 – 30Nov88: 70 – 120



Test Name: Glucose, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms: FBS, Fasting Blood Glucose

Reference Ranges:

Glucose, serum mg/dL (SI: mmol/L = 0.0555 x mg/dL) Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 – present: 70 – 115 Effective 01Jan79 – 30Nov88: 70 – 120



Test Name: Glucose, Whole Blood **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Glucose, Whole Blood mg/dL (SI: mmol/L = 0.0555 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jul01 - present: 70 - 115



Test Name: GM-1 Antibody Panel Laboratory Medicine Mayo Medical Labs

Synonyms: Ganglioside

Reference Ranges:

GM-1 Antibody Panel titer

Performed at Mayo Medical Labs, Rochester MN

Effective 01Oct94 – present:

Monosialo GM1 >=500 IgM Monosialo GM1 >=1000 IgG and IgM Asialo GM1 >=4000 IgG and IgM Disialo GD1b >=1000

Performed at SmithKline Beecham, Van Nuys CA Effective 02Dec92 - 30Sep94: 0 - 9.99 units



Test Name: Gold Determination, Urine **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Gold Determination, Urine

Performed at SmithKline Beecham, Van Nuys CA Effective 01Jan79 – present: No ranges available



Test Name: Gonococcus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Gonococcus Culture

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen Culture: No Neisseria gonorrhoeae isolated

For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Gonococcus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology
Synonyms: GC culture

Reference Ranges:

Gonococcus Culture, Urethra

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

No WBCs, No Gram negative diplococci seen Culture: No Neisseria gonorrhoeae isolated.

For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Gonococcus Culture/Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology
Synonyms: GC Culture

Reference Ranges:

Gonococcus Culture/Gram Stain, Cervix

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

No Neisseria gonorrhoeae isolated

Gram stain: No WBCs, No gram negative diplococci seen

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Gonococcus Culture/Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** GC Culture

Reference Ranges:

Gonococcus Culture/Gram Stain, Vagina

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Neisseria gonorrhoeae isolated For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Gram Stain, Mouth (Oral Cavity)

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No yeast like cells seen



Test Name: Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Gram Stain, Stool

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No White Blood Cells seen

Test Name: Growth Hormone Laboratory Medicine

Lab Area: Chemistry
Synonyms: HGH
Reference Ranges:

Growth Hormone ng/mL (SI: $\mu g/L = 1 \times ng/mL$)

Perfomed at the National Institutes of Health, Bethesda MD

Effective 14Apr04 – present:

Male: 0-5Female: 0-10

Effective 20Jan99 - 13Apr04: 0 - 5

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 19Jan99:

Females 0 - 10.0 Males 0 - 5.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 – 18Sep94:

Adult & Child <8.0 Neonate <40.0 Stimulated >5.0 Suppressed <1.0

Effective 04Jan89 – 19May91:

Adult >18Y <5 0Y-18Y <10

Effective 01Jan79 – 30Jun85:

Adult & Child <8 2Y-10Y <10 F>=11Y <15 M>=11Y <10



Test Name: Growth Hormone Binding Protein

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: GHBK

Reference Ranges:

Growth Hormone Binding Protein pmol/L

Performed at Esoterix Endocrinology, Calabasas Hills CA Effective 08Jan03 – present:

CHILDREN:

0-1 Years <125 - 762 3-9 Years 267 - 1638 10-14 Years 431 - 1892

ADULTS:

20-50 Years 686 - 2019 (Mean=1104)



Test Name: Haemophilus Influenza IgG Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: H. Flu Ab

Reference Ranges:

Haemophilus Influenza IgG Antibody mg/L

Performed at Mayo Medical Labs, Rochester MN Effective 02Jun04 – present:

Interpretation:

>=0.15 Protective antibody level

An anti-HIB IgG antibody concentration of 0.15 mg/L is generally accepted as the minimum level for protection at a given time.

Performed at Focus Technologies, Cypress CA Effective 06Mar99 – 01Jun04: ug/mL

Interpretive criteria:

< 0.15 Nonprotective antibody level

0.15 - 0.99 Indeterminate for protective antibody

>=1.0 Protective antibody level

A four-fold increase in the polyribosylribitol phosphate (PRP) IgG Ab level between pre-vaccination and post-vaccination sera is considered evidence of effective immunization.



Test Name: Haloperidol

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Reduced Haloperidol

Reference Ranges:

Haloperidol ng/mL (SI: $\mu g/L = ng/mL \times 1.0$) $(ng/mL = \mu g/L)$

Performed at Mayo Medical Labs, Rochester MN

Effective 25Apr01 – present: Haloperidol 5-16Reduced Haloperidol 10-80

Effective 14Feb95 – 24Apr01:

Haloperidol $(\mu g/L)$

Therapeutic 5-16

Low Dose Therapy 2-5

High Dose Therapy 10-40

Reduced Haloperidol No established range



Test Name: Haptoglobin

Department: Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

Haptoglobin mg/dL (SI: mg/L = 10 x mg/dl)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present: 33 – 242 Effective 22Dec97 – 10Jun03: 29 – 170 Effective 28Jun95 – 21Dec97: 34 – 181 Effective 05Jul81 – 27Jun95: 41 – 210 Effective 01Jan79 – 04Jul81: 50 – 150

Test Name: Heavy Metals, Free, Urine
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Arsenic, Lead, Mercury, Cadmium

Reference Ranges:

Heavy Metals, Free, Urine µg/24hr

Performed at Mayo Medical Labs, Rochester MN

Effective 30Mar95 – present:

Arsenic $\mu g/24hr$ (SI: $\mu mol/d = \mu g/24hr \times 0.0133$)

Normal concentration: <120 Toxic concentration: >= 5000

Lead $\mu g/24hr$ (SI: $\mu mol/d = \mu g/24hr \times 0.00483$)

Normal: <80 Inconclusive: 80-400 Abnormal: >400

Mercury $\mu g/24hr$ (SI: mmol/d = $\mu g/24hr \times 0.00499$)

Normal concentration: <10 Toxic concentration: >50

Cadmium $\mu g/24hr$ (SI: nmol/d = $\mu g/24hr \times 8.897$)

Normal concentration: <3.0

These reference values are for a 24 hr collection. Specimens collected for other than a 24 hr time period are reported in units of μ g/L for which reference values are not established.

Performed at SmithKline Beecham, Van Nuys CA

Effective 15Nov85 – 19Sep94:

Arsenic: $0 - 100 \,\mu g/L$ (SI: $\mu \text{mol/L} = \mu g/L \times 0.0133$) Lead: $< 80 \,\mu g/L$ (SI: $\mu \text{mol/L} = \mu g/L \times 0.00483$)

Mercury: $0.0 - 20.0 \,\mu g/L$ (SI: mmol/L = μ g/L x 0.00499)

Effective 01Jan79 – 13Nov85:

Arsenic: $0 - 100 \mu g/L$ Lead: $< 100 \mu g/L$

Mercury: $0.0 - 20.0 \,\mu g/L$



Test Name: Heinz Body Test **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Heinz Body Test

Performed at Quest Diagnostics, Baltimore MD Effective 13Nov02 – present: Occasional Heinz body seen

Performed at American Medical Labs, Chantilly VA Effective 14Jun00 – 12Nov02: Occasional Heinz body seen

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – 13Jun00: Occasional Heinz body seen



Test Name: Helicobacter Culture **Department:** Laboratory Medicine

Lab Area: Microbiology
Synonyms: H.pylori

Reference Ranges:

Helicobacter Culture, Biopsy

Performed at National Institutes of Health, Bethesda MD Effective 29Jun94 – present: No Helicobater pylori isolated



Test Name: Helicobacter Pylori IgG Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: H. Pylori

Reference Ranges:

Helicobacter Pylori IgG Antibody

Performed at Mayo Medical Labs, Rochester MN Effective 24Nov2004 – present: Index <0.75 (negative) Index 0.75 - 0.99 (equivocal)

Index > or = 1.00 (positive)

Effective 19Sep94 – 23Nov2004: Reported as positive, negative, or equivocal negative <=170 ABR equivocal 171 - 199 ABR positive >=200 ABR

Performed at SmithKline Beecham, Van Nuys CA Effective 22Jun94 - 18Sep94



Test Name: Hemoglobin A1C **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms: Glycosylated Hemoglobin, A1C, hgb, hb

Reference Ranges:

Hemoglobin A1C % (SI: Hb fraction = $0.01 \times \%$)

Performed at National Institutes of Health, Bethesda MD

Effective 29Apr98 - present: 4.8 - 6.4

Glycosylated Hemoglobin %

Effective 01Jul85 – 28Apr98: 5.4 – 7.6 Effective 16Feb82 – 30Jun85: 5.7 – 8.8



Test Name: Hemoglobin A2 **Department:** Laboratory Medicine

Lab Area: Hematology **Synonyms:** hgb, hb

Reference Ranges:

Hemoglobin A2 %

Performed at National Institutes of Health, Bethesda MD

Effective 09Jun99 – present: 2.2 – 3.2 Effective 01Jan79 – 08Jun99: 1.9 – 3.3



Test Name: Hemoglobin Electrophoresis

Department: Laboratory Medicine

Lab Area: Hematology **Synonyms:** hgb, hb

Reference Ranges:

Hemoglobin Electrophoresis

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: Call Hematology X65720 for interpretation



Test Name: Hemosiderin, Urine Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Hemosiderin, Urine

Performed at Mayo Medical Labs, Rochester MN
Effective 11Apr01 – present
Hemosiderin, Urine Negative
Hemoglobin, Urine Negative
RBC, Urine Occasional <1

Interpretation:

A positive hemosiderin indicates excess red cell destruction.

Hemosiderinuria may still be detected after hemoglobin has cleared from the urine and hemoglobin dipstick is negative.

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – 10Apr01: No ranges available



Test Name: Hepatic Panel Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Hepatic Panel

Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 – present:

Alkaline Phosphatase >18Y 37-116 *U/L*

ALT/GPT 6-41 *U/L*AST/GOT 9-34 *U/L*Total Bilirubin 0.1-1.0 *mg/dL*Direct Bilirubin < 0.2 *mg/dL*



Test Name: Hereditary Hemochromatosis Gene Analysis

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: HFI **Reference Ranges:**

HFE Hereditary Hemochromatosis Gene Analysis

Performed at Mayo Medical Labs, Rochester MN

Effective 10Jun98 – present

An interpretive report will indicate whether or not results are consistent with a diagnosis of hereditary hemochromatosis.



Test Name: Herpes Simplex Abs, 1/2, Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: HSV, Virus

Reference Ranges:

Herpes Simplex Virus Antibodies

Performed at Mayo Medical Labs, Rochester MN Effective 19Jul01 – present:

HSV1 IgG Reported as positive, negative or equivocal HSV2 IgG Reported as positive, negative or equivocal HSV1/2 IgM Reported as positive or negative

Effective 02Dec97 – 18Jul01:

IgG Reported as positive, negative or equivocal

IgM Reported as positive or negative

Effective 19Sep94 – 01Dec97:

IGG <1:5 IGM <1:10

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available

Test Name: Herpes Simplex Antibody, 1/2 CSF

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: HSV, Viral

Reference Ranges:

Herpes Simplex Antibodies, Types 1 & 2, CSF titer

Performed at Focus Technologies, Cypress CA

Effective 09Mar99 – present:

Expected Values:

HSV 1 ACIF <1:8 HSV 2 ACIF <1:2

HSV 1 IgM, IFA <1:1

HSV 2 IgM, IFA <1:1

Interpretation:

HSV 1 ACIF: <1:8 Anitbody not detected HSV 2 ACIF: <1:2 Antibody not detected HSV 1 ACIF: >= 1:8 Antibody detected HSV 2 ACIF: >= 1:2 Antibody detected

HSV 1 & 2 IgM IFA: <1:1 Antibody not detected HSV 1 & 2 IgM IFA: >= 1:1 Antibody detected



Test Name: Herpes Simplex Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: HSV **Reference Ranges:**

Herpes Simplex Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 – present: No virus isolated.



Test Name: Herpes Simplex Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: HSV **Reference Ranges:**

Herpes Simplex Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 – present: No virus isolated.



Test Name: Herpes Simplex Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: HSV **Reference Ranges:**

Herpes Simplex Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 – present: No virus isolated.



Test Name: Herpes Simplex Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: HSV **Reference Ranges:**

Herpes Simplex Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 – present: No virus isolated.



Test Name: Herpes Simplex Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: HSV **Reference Ranges:**

Herpes Simplex Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 – present: No virus isolated.



Test Name: Herpes Simplex Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: HSV **Reference Ranges:**

Herpes Simplex Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 – present: No virus isolated.



Test Name: Herpes Simplex Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: HSV **Reference Ranges:**

Herpes Simplex Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 – present: No virus isolated.



Test Name: Herpes Simplex Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: HSV **Reference Ranges:**

Herpes Simplex Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 – present: No virus isolated.



Test Name: Herpes Simplex Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: HSV **Reference Ranges:**

Herpes Simplex Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 – present: No virus isolated.

Performed at American Medical Labs, Chantilly VA Effective until 19Sep94: No virus isolated.



Test Name: Herpes Simplex Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: HSV **Reference Ranges:**

Herpes Simplex Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 19Sep94 – present: No virus isolated.

Performed at American Medical Labs, Chantilly VA Effective until 19Sep94: No virus isolated.



Test Name: Herpes Simplex Virus PCR

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** HSV-PCR

Reference Ranges:

Herpes Simplex 1 & 2 CSF PCR

Performed at National Institutes of Health, Bethesda MD Effective 02Mar98 – present: Negative for Herpes simplex virus type 1 and type 2 by PCR.

Performed at Mayo Medical Labs, Rochester MN

Effective 21Aug96 – 01Mar98: Negative



Test Name: Hexosaminidase, A & Total, Fibroblasts

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Hexosaminidase, A & Total, Fibroblasts

Performed at Mayo Medical Labs, Rochester MN Effective 09Oct96 – present:

Hexosaminidase, Total 92.5 – 184.5 *U/g of cellular protein*

Hexosaminidase A 41 – 65 percent



Test Name: Hexosaminidase, A & Total, Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Hexosaminidase, A & Total, Serum

Performed at Mayo Medical Labs, Rochester MN

Effective 09Oct96 – present:

Hexosaminidase, Total

0Y-4Y not established \Rightarrow 10.4 – 23.8 U/L

Hexosaminidase A

0Y-4Y not established

>=5Y:

Normal 56 - 80 percent Indeterminate 50 - 55 percent Carrier 0 - 49 percent

Heterozygote testing is not reliable in neonates due to elevate total and heat stable forms of hexosaminidase. It remains valid in predicting the presence of homozygotes for Tay-Sachs.



Test Name: Histamine, Whole Blood
Department: Laboratory Medicine
Hayo Medical Labs

Synonyms:

Reference Ranges:

Histamine, Whole Blood ng/mL (SI: $\mu g/L = 1.0 \text{ x ng/mL}$)

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 17Apr00 - present: 9 - 141

Performed at SmithKline Beecham, Van Nuys CA

Effective 28May97 – 16Apr00: 25 – 175



Test Name: Histoplasma Antibody CSF **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Histoplasma Antibody CSF Histoplasma Yeast CF, CSF Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 20Mar00

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Histoplasma Antibody, Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Histoplasma Antibody, Serum

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present:

Antibody by Immunodiffusion: Negative, Positives reported as band present Mycelial by Complement Fixation: Negative, Positives reported as titer Yeast by Complement Fixation: Negative, Positives reported as titer

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94:

Mycelial by Complement Fixation: Negative, Positives reported as titer Yeast by Complement Fixation: Negative, Positives reported as titer

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90:

Mycelial by Complement Fixation: Negative, Positives reported as titer Yeast by Complement Fixation: Negative, Positives reported as titer



Test Name: Histoplasma Antigen Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Histoplasma Antigen, Urine EIA units

Performed at MiraVista Diagnostics, Indianapolis IN

Effective 26Apr02 – present:

EIA units Result Interpretation

EquivocalResult inconclusive after repeated testing

<1.0.....Negative

1.0-2.0.....Weak Positive; Suggest Repeat

2.1-4.0......Positive; Repeat if consistent with Clinical Findings

4.1-10.0......Moderate Positive

>10.0....High Positive

FOR FOLLOW-UP TESTING ONLY (comparing to previous specimen test in the same assay): Increase:

< or = 2.0: Stable*

2.1 – 4.0: Mild increase; possible failure; suggest repeat >4.0: Moderate to Marked increase; probable failure

Decrease: Current specimen having >2.0 unit decrease compared to result of prior specimen tested in the same assay is interpreted as having a decreased antigen level.

*No Change: Increases or decreases <2.0 units are considered no change.

Performed at Wishard Memorial Hospital, Indianapolis IN Effective until 25Apr02:

Equivocal: Result inconclusive after repeated testing

<1.0 Negative

1.0 - 2.0 Weak positive; suggest repeat



Test Name: Histoplasma Antigen, Blood

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Histoplasma Antigen, Blood EIA units

Performed at MiraVista Diagnostics, Indianapolis IN

Effective 26Apr02 – present:

Equivocal Result inconclusive after repeated testing

<1.0 Negative

1.0 - 2.0 Weak positive; Suggest repeat

2.1 – 4.0 Positive; Repeat if inconsistent with clinical findings

4.1 – 10.0 Moderate Positive >10.0 Highly Positive

FOR FOLLOW-UP TESTING ONLY (comparing to previous specimen test in the same assay):

Increase:

< or = 2.0: Stable*

2.1 – 4.0: Mild increase; possible failure; suggest repeat >4.0: Moderate to Marked increase; probable failure

Decrease: Current specimen having >2.0 unit decrease compared to result of prior specimen tested in the same assay is interpreted as having a decreased antigen level.

*No Change: Increases or decreases <2.0 units are considered no change.

Performed at Wishard Memorial Hospital, Indianapolis IN Effective until 25Apr02:

Equivocal: Result inconclusive after repeated testing

<1.0 Negative

1.0 - 2.0 Weak positive; suggest repeat

>2.0 Positive



Test Name: Histoplasma Antigen, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Histoplasma Antigen, Urine EIA units

Performed at MiraVista Diagnostics, Indianapolis IN

Effective 26Apr02 – present:

Equivocal Result inconclusive after repeated testing

<1.0 Negative

1.0 - 2.0 Weak positive; Suggest repeat

2.1 – 4.0 Positive; Repeat if inconsistent with clinical findings

4.1 – 10.0 Moderate Positive >10.0 Highly Positive

FOR FOLLOW-UP TESTING ONLY (comparing to previous specimen test in the same assay):

Increase:

< or = 2.0: Stable*

2.1 – 4.0: Mild increase; possible failure; suggest repeat >4.0: Moderate to Marked increase; probable failure

Decrease: Current specimen having >2.0 unit decrease compared to result of prior specimen tested in the same assay is interpreted as having a decreased antigen level.

*No Change: Increases or decreases <2.0 units are considered no change.

Performed at Wishard Memorial Hospital, Indianapolis IN Effective until 25Apr02:

Equivocal: Result inconclusive after repeated testing

<1.0 Negative

1.0 - 2.0 Weak positive; suggest repeat

>2.0 Positive



Test Name: HIV Viral Load Laboratory Medicine

Lab Area: Chemistry

Synonyms: VL **Reference Ranges:**

HIV Viral Load

Performed at National Institutes of Health, Bethesda MD Effective 12Sep01 – present: <50 RNA copies/mL



Test Name: Homocysteine, Total, Plasma

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Homocysteine, Total, Plasma $\mu mol/L$ (SI: = $\mu mol/L$) Performed at National Institutes of Health, Bethesda MD

Effective 30Aug00 – present: 0 - 13

Performed at Mayo Medical Labs, Rochester MN

Effective 13Aug98 - 29Aug00: 0 - 13Effective 21Aug96 - 12Aug98: 4 - 17



Test Name: Homogentisic Acid, Urine
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Alkaptonuria, Ochronosis

Reference Ranges:

Homogentisic Acid, Urine

Performed at Mayo Medical Labs, Rochester MN Effective11Feb05 – present: negative (reported as positive or negative)



Test Name: Homovanillic Acid, Urine
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: HVA

Reference Ranges:

Homovanillic Acid, Urine mg/24hr (SI: $\mu mol/d = 5.49 \text{ x mg}/24hr$)

Homovanillic Acid, Urine $\mu g/mg$ creat (SI: mmol/mol creat = 0.621 x $\mu g/mg$ creat)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present: Adults < 8.0 mg/24hr

Children:

< 1Y < 35.0 μg/mg creat
>= 1Y < 23.0 μg/mg creat
2Y-4Y < 13.5 μg/mg creat
5Y-9Y < 9.0 μg/mg creat
10Y-14Y < 12.0 μg/mg creat</pre>

Performed at SmithKline Beecham, Van Nuys CA Effective 01Apr85 – 18Sep94: 0 – 10 mg/24hr



Test Name: Human Chorionic Gonadotropin, Serum

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Beta HCG, Pregnancy

Reference Ranges:

Human Chorionic Gonadotropin (for Pregnancy) *IU/L* (SI: = IU/L)

Performed at National Institutes of Health, Bethesda MD

Effective 11Mar98 - present:

Negative 0-5 Indeterminate 6-24 Positive >=25



Test Name: Hydroxyproline, Total, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Hydroxyproline, Total, U mg/24hr (SI: mmol/d = 0.0076 x mg/24hr)
Hydroxyproline, Total, U $\mu g/mg$ creat (SI: mmol/mol creat = 0.863 x $\mu g/mg$ creat)
Performed at Mayo Medical Labs, Rochester MN
Effective 19Sep94 – present:
>=19Y 15 – 45 mg/24hr<5Y 100-400 $\mu g/mg$ creat
5Y-12Y 100-150 $\mu g/mg$ creat
13Y-18Y dependent on growth spurts

Performed at SmithKline Beecham, Van Nuys CA Effective 01Jan79 – 18Sep94: 25 – 77 mg/24hr



Test Name: Hypercoagulable Panel **Department:** Laboratory Medicine

Lab Area: Hematology **Synonyms:** HyperCoag Panel

Reference Ranges:

HyperCoag Panel

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present:

Protime, Automated 11.8-14.7 seconds PTT, Automated 23.4-34.5 seconds Fibrinogen, Auto. 168-458 mg/dL Thrombin Time, Auto. 15.6-24.4 seconds

Protein C 72-149 % Protein S 64-131 % Antithrombin III 75-127 % **DRVV** Negative Staclot-LA Negative FV Leiden Negative Prothrombin 20210 Negative 0-13 umol/L Homocysteine

Page Hematology Fellow at 104-2359-7 for result interpretation.



Test Name: Hypoglycemic Screen, Urine

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Sulfonylurea

Reference Ranges:

No longer performed as of Nov. 12, 2002

Hypoglycemic Screen, Urine

Performed at National Medical Services, Willowgrove PA Effective 09Jun99 – 13Nov02:

Reporting Limits:

Chlorpropamide $3.0 \,\mu g/mL$ (SI: $\mu \text{mol/L} = 3.61 \,\text{x} \,\mu g/\text{mL}$)
Tolazamide $3.0 \,\mu g/mL$ (SI: $\mu \text{mol/L} = 3.21 \,\text{x} \,\mu g/\text{mL}$)
Tolbutamide $3.0 \,\mu g/mL$ (SI: $\mu \text{mol/L} = 3.70 \,\text{x} \,\mu g/\text{mL}$)
Glyburide $0.8 \,\mu g/mL$ (SI: $\mu \text{mol/L} = 2.02 \,\text{x} \,\mu g/\text{mL}$)
Glipizide $0.8 \,\mu g/mL$ (SI: $\mu \text{mol/L} = 2.24 \,\text{x} \,\mu g/\text{mL}$)
Acetohexamide $3.0 \,\mu g/mL$ (SI: $\mu \text{mol/L} = 3.08 \,\text{x} \,\mu g/\text{mL}$)

Test Name: Hypoglycemic Screen, Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs **Synonyms:** Sulfonylurea

Reference Ranges:

Hypoglycemic Screen, Serum ng/mL

Performed at Mayo Medical Labs, Rochester MN

Effective 08Nov00 – present:

Reporting Limits:

Acetohexamide <200 (SI: μ mol/L = 0.00308 x ng/mL) Chlorpropamide <25 (SI: μ mol/L = 0.0036 x ng/mL)

Glimepiride <20 (SI: Not Available)

Glipizide $\langle SI: \mu mol/L = 0.00224 \text{ x ng/mL} \rangle$ Glyburide $\langle SI: \mu mol/L = 0.00202 \text{ x ng/mL} \rangle$

Repaglinide <3 (SI: Not Available)

Tolazamide <20 (SI: μ mol/L = 0.00321 x ng/mL) Tolbutamide <50 (SI: μ mol/L = 0.0037 x ng/mL)

NOTE: The report indicates a specific drug is POSTIVE if that drug is detected at a concentration greater than the sensitivity limit. The test sensitivity limit listed for each drug is lower than the concentration that will cause incrased insulin and decreased glucose.

Performed at National Medical Services, Willowgrove PA

Effective 09Jun99 - 07Nov00:

Acetohexamide $\mu g/mL$ (SI: $\mu mol/L = 3.08 \text{ x } \mu g/mL$)

Usual therapeutic range: 20-60Reporting limit: 0.3

Chlorpropamide $\mu g/mL$ (SI: $\mu mol/L = 3.61 \text{ x } \mu g/mL$) Therapeutic range with chronic intake: $75 - 250 \mu g/mL$

Reporting limit: 0.3

Glipizide $\mu g/mL$ (SI: $\mu mol/L = 2.24 \text{ x } \mu g/mL$)

Peak level following single 5 mg oral dose (at 1.6 hrs post dose): 0.1 - 0.5

Reporting limit: 0.08

Glyburide $\mu g/mL$ (SI: $\mu mol/L = 2.02 \text{ x } \mu g/mL$)

Peak level following single 5 mg oral dose: approximately 0.4

Reporting limit: 0.08

Tolazamide $\mu g/mL$ (SI: $\mu mol/L = 3.21 \text{ x } \mu g/mL$)

Peak levels following single 250 mg oral dose (at 3-4 hrs post dose): 20 - 25

Reporting limit: 0.3

Tolbutamide $\mu g/mL$ (SI: $\mu mol/L = 3.70 \text{ x } \mu g/mL$) Peak level following single 500 mg oral dose: approximately 45 Reporting limit: 0.3



Test Name: IgD

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Immunoglobulin

Reference Ranges:

IgD mg/dL (SI: mg/L = 10 x mg/dL)

Performed at Mayo Medical Labs, Rochester MN

Effective 04Jun02 - present: 0 - 10

Performed at Mayo Medical Labs, Rochester MN

Effective 11Mar98 - 03Jun02: 0 - 14



Test Name: IgE

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Immunoglobulin E

Reference Ranges:

IgE IU/mL (SI: $kU/L = 1 \times IU/mL$)

Performed at National Institutes of Health, Bethesda MD

Effective 20Jan99 - present: 0 - 90Effective 27Jun85 - 19Jan99: 0 - 130



Test Name: IGF-1

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Somatomedin C, Insulin-like Growth Factor-1

Reference Ranges:

IGF-1 ng/mL (SI: $\mu g/L = 1 \times ng/mL$)

Performed at National Institutes of Health, Bethesda MD

Effective 29Aug00 – present:

2M-5Y 17 - 2486Y-8Y 88 - 474

9Y-11Y

Male 110 - 565Female 117 – 771

12Y-15Y

Male 202 - 957Female 261 – 1096 182 - 78016Y-24Y 25Y-39Y 114 - 49290 - 36040Y-54Y 71 - 290>54Y

Tanner Stages

Male 109 - 485Female 128 - 470

II

Male 174 - 512Female 186 – 695

III

Male 230 - 818Female 292 – 883

IV

Male 396 - 776Female 394 - 920

V

Male 402 - 839Female 308 – 1138 Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 28Aug00:

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Male:
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0Y-5Y 0 - 103 6Y-8Y 2 - 118 9-10Y 15 - 148 11Y-13Y 55 - 216 14Y-15Y 114 - 232 16Y-17Y 84 - 221 18Y-19Y 56 - 177 20Y-24Y 75 - 142 25Y-29Y 65 - 131 30Y-34Y 58 - 122 35Y-39Y 51 - 122 40Y-44Y 51 - 115 45Y-49Y 43 - 104 >=50Y 40 - 100 Female: 0Y-5Y 0 - 1126Y-8Y 5 - 128 9Y-10Y 24 - 158 11Y-13Y 65 - 226 14Y-15Y 124 - 242 16Y-17Y 94 - 231 18Y-19Y 66 - 186 20Y-24Y 64 - 131 25Y-29Y 55 - 121 47 - 112 30Y-34Y 35Y-39Y 40 - 104 35 - 98 40Y-44Y 45Y-49Y 32 - 93 >=50Y 29 - 90

Performed at SmithKline Beecham, Van Nuys CA

Effective 04Jan89 - 18Sep94:

Male:

0Y-2Y 22 - 87 3Y-5Y 20 - 126 6Y-9Y 45 - 167 10Y-12Y 158 - 282 13Y-15Y 152 - 494 16Y-18Y 211 - 454 Female: 0Y-2Y 22 - 93 3Y-5Y 28 - 150 6Y--9Y 53 - 212 10Y-12Y 161 - 580 13Y-15Y 298 - 538 16Y-18Y 204 - 473

Effective 12Dec88 - 18Sep94:

Adult Male 90 - 318 Adult Female 116 - 270

Effective 22Jul88 - 03Jan89:

Male:

0Y-2Y 14 - 56 3Y-5Y 13 - 81 6Y-9Y 29 - 108 10Y-12Y 102 - 182 13Y-15Y 98 - 319 16Y-18Y 136 - 293 Female: 0Y-2Y 14 - 60

0Y-2Y 14 - 60 3Y-5Y 18 - 97 6Y--9Y 34 - 137 10Y-12Y 104 - 374 13Y-15Y 192 - 347 16Y-18Y 132 - 305

Effective 22Jul88 - 11Dec88:

Adult Male 43 - 178 Adult Female 24 - 153

Test Name: IGF Binding Protein-1
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: IGFBP-1

Reference Ranges:

IGF Binding Protein-1 (IGFBP-1) *ng/mL* (SI: ug/L = 1.0 x ng/mL) Performed at Mayo Medical Labs, Wilmington MA (Clinical Trials) Effective 12Feb03 – present: No ranges available

Performed at Esoterix Endocrinolgy, Calabasas Hills CA Effective 24Jul02 – present:

Prepubertal:

Fasting 30-1000 Random 10-500

Pubertal:

Fasting 20-200 Random 20-100

Adults:

Fasting 10-150 Random <5-40



Test Name: IGF Binding Protein-2 **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: IGFBP-2

Reference Ranges:

IGF Binding Protein-2 (IGFBP-2) *ng/mL* (SI: ug/L = 1.0 x ng/mL) Performed at Mayo Medical Labs, Wilmington MA (Clinical Trials) Effective 12Feb03 – present: No ranges available

Performed at Esoterix Endocrinolgy, Calabasas Hills CA Effective 24Jul02 - present:

Age	Range	Mean
(Years)	(ng/mL)	(ng/mL)
0-1	348-922	567
1-2	280-750	460
2-6	275-700	435
6-10	255-540	370
10-15	200-470	305
15-25	215-518	325
25-45	220-570	345
45-65	225-710	390
65-75	225-650	450
75-85	300-1038	560

Test Name: IGF Binding Protein-3
Department: Laboratory Medicine
Mayo Medical Labs

Synonyms: IGFBP-3

Reference Ranges:

IGF Binding Protein (IGFBP-3) μg/mL (SI: mg/L)

Conversion Factors:

 $\mu g/mL \times 1 = mg/L$

 μ g/mL × 34.48 = nmol/L = 330 ng/mL

Performed at Mayo Medical Labs, Rochester MN Effective 27Oct04 – present:

Neonatal Reference Ranges, µg/mL: (from Elmlinger)

1-7 days (n = 45): <=0.7

8-15 days (n = 40): central 95% range: 0.5-1.4

16 days up to 1 year: unavailable

pediatric & adult age-dependent reference ranges, µg/mL:

Age, y Central 95% range

- 1 0.7–3.6
- 2 0.8–3.9
- 3 0.9–4.3
- 4 1.0–4.7
- 5 1.1–5.2
- 6 1.3–5.6
- 7 1.4–6.1
- 8 1.6–6.5
- 9 1.8–7.1
- 10 2.1–7.7

pediatric & adult age-dependent reference ranges, µg/mL:

Age, y Central 95% range

- 11 2.4–8.4
- 12 2.7–8.9
- 13 3.1–9.5
- 14 3.3–10
- 15 3.5–10
- 16 3.4–9.5 17 3.2–8.7
- 18 3.1–7.9
- 19 2.9–7.3

```
20
          2.9 - 7.2
21-25
           3.4 - 7.8
26-30
           3.5 - 7.6
31-35
           3.5 - 7.0
36-40
           3.4 - 6.7
41-45
           3.3 - 6.6
46-50
           3.3 - 6.7
51-55
           3.4 - 6.8
56-60
           3.4 - 6.9
61-65
           3.2 - 6.6
66-70
           3.0-6.2
71-75
           2.8 - 5.7
76-80
           2.5 - 5.1
81-85
           2.2 - 4.5
```

IGFBP-3 Tanner-staged* pediatric reference ranges, μg/mL (Elmlinger)

Tanner Stage Central 95% Range

Male

- 1 1.2-6.4 2 2.8-6.9 3 3.9-9.4
- 4 3.3-8.1
- 5 2.7–9.1

Female

- 1 1.4–5.2
- 2 2.3–6.3
- 3 3.1–8.9
- 4 3.7–8.7
- 5 2.6-8.6

*Puberty onset, i.e. the transition from Tanner stage 1 (prepubertal) to Tanner stage 2 (early pubertal), occurs for girls at a median age of 10.5 (+/-2) years and for boys at a median age of 11.5 (+/-2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African-American girls. By contrast, for boys there is no definite proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage 5 (young adult) should be reached by age 18.

Performed at Mayo Medical Labs, Wilmington MA (Clinical Trials) Effective 12Feb03 – 26Oct04: No ranges available

Performed at Esoterix Endocrinolgy, Calabasas Hills CA

 $Effective\ 23Oct02-11Feb03:\ mg/L$

0-6D 0.2 - 0.5 7-30D 0.5 - 1.2 31D-11M 0.7 - 2.5 12M-4Y 1.4 - 3.0

1.5 - 3.4 5-6Y 7-8Y 2.1 - 4.29-11Y 2.0 - 4.812-13Y 2.1 - 6.2 2.2 - 5.9 14-15Y 16-18Y 2.5 - 4.819-30Y 2.0 - 4.231-70Y 1.9 - 3.6

Effective 24Jul02 - 22Oct02:

0.2 - 0.5Newborns 0.5 - 1.27D-30D 1M-11M 0.7 - 2.51Y-4Y 1.4 - 3.05Y-6Y 1.5 - 3.47Y-8Y 2.1 - 4.29Y-11Y 2.0 - 4.82.1 - 5.2 12Y-13Y 14Y-15Y 2.2 - 5.9 16Y-18Y 2.5 - 4.819Y-30Y 2.0 - 4.231Y-70Y 1.9 - 3.6



Test Name: IgG Index, CSF and Serum

Department: Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

IgG Index, CSF and Serum ratio

Performed at National Institutes of Health, Bethesda MD

Effective 26Jun85 – present:

CSF IgG Index: 0.26 - 0.62 ratio

The following tests are reported with the IgG Index:

Ranges effective 11Jun03 – present:

IgG Serum 642-1730 mg/dL

IgA Serum 91-499 mg/dL

IgM Serum 34-342 mg/dL

CSF Albumin 12-33 mg/dL

Alb Quoteint 3.2-9.0 ratio

CSF IgG 0.9-4.8 mg/dL

Test Name: IgG Subclasses **Department:** Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

IgG Subclasses mg/dL (SI: $g/L = 0.01 \times mg/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present:

IgG 1: 329 – 954 IgG 2: 162 – 693 IgG 3: 15 – 127 IgG 4: 2 – 100 IgG Total: 642 – 1730 IgA: 91 – 499 IgM: 34 – 342

Effective 19Jan95 – 10Jun03:

IgG 1: 356 – 1176 IgG 2: 214 – 644 IgG 3: 28 – 170 IgG 4: 11 – 137 IgG Total: 523 – 1482

Effective 15Aug91 - 18Jan95:

IgG 1: 470 – 1300 IgG 2: 115 – 750 IgG 3: 20 – 130 IgG 4: 5 – 165 IgG Total: 628 – 1590



Test Name: IgG, CSF

Department: Laboratory Medicine

Lab Area: Immunology **Synonyms:** Immunoglobulin G

Reference Ranges:

IgG, CSF mg/dL (SI: mg/L = 10 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present: 0.9 – 4.8 Effective 05Oct94 – 10Jun03: 0.8 – 4.1

Effective 03May91 - 04Oct94: >= 15Y: 0.9 - 4.3Effective 01Jan79 - 02May91: 0Y-14Y: 0.7 - 1.7Effective 01Dec85 - 03May91: >= 15Y: 0.8 - 4.2Effective 27Jun85 - 30Nov85: >= 15Y: 0.5 - 3.5Effective 01Jan79 - 26Jun85: >= 15Y: 0 - 3.5

Test Name: Imipramine/Desipramine
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Tofranil, Norpramin

Reference Ranges:

Imipramine/Desipramine $\mu g/L$ ($\mu g/L = ng/mL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 - present:

Desipramine (SI: $nmol/L = 3.75 \times \mu g/L$)

Therapeutic 75 - 225 Toxic >=500

Imipramine + Desipramine (Total) (SI: nmol/L = $3.57 \times \mu g/L$)

Therapeutic 125 - 275 Toxic >= 500

Performed at American Medical Labs, Chantilly VA

Effective 02Apr92 - 30May95:

Desipramine

Therapeutic 75 - 300 Toxic >400

Imipramine + Desipramine (Total)

Therapeutic 125 - 250 Toxic >500

Performed at MetPath Labs, Rockville MD

Effective until 01Apr92:

Desipramine

Therapeutic 75 - 160 Toxic >1000

Imipramine + Desipramine (Total)

Therapeutic 125 - 250 Toxic >500



Test Name: Immunofixation Electrophoresis, CSF

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: IFE **Reference Ranges:**

Immunofixation Electrophoresis, CSF

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 - present: No anomalous immunoglobulins



Test Name: Immunofixation Electrophoresis, Serum

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: IFE **Reference Ranges:**

Immunofixation Electrophoresis, Serum

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 - present: No anomalous immunoglobulins



Test Name: Immunofixation Electrophoresis, Urine

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: IFE **Reference Ranges:**

Immunofixation Electrophoresis, Urine

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No anomalous immunoglobulins

Test Name: Immunoglobulins, Quantitative

Department: Laboratory Medicine

Lab Area: Immunology
Synonyms: IgG, IgA, IgM

Reference Ranges:

Immunoglobulins, Quantitative mg/dL

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present:

Ig A: 91 - 499 (SI: mg/L = $10 \times \text{mg/dL}$) Ig G: 642 - 1730 (SI: g/L = $0.01 \times \text{mg/dL}$)

Ig M: 34 - 342 (SI: mg/L = $10 \times \text{mg/dL}$)

Effective 05Oct94 – 10Jun03:

Ig A: 51 - 375 (SI: mg/L = $10 \times \text{mg/dL}$)

Ig G: 523 - 1482 (SI: g/L = 0.01 x mg/dL)

Ig M: 37 - 200 (SI: mg/L = $10 \times \text{mg/dL}$)

Effective 06Jan93 – 04Oct94:

Ig A: 52 - 379

Ig G: 545 – 1560

Ig M: 39 - 211

Effective 03May91 – 05Jan93:

Ig A: 93 - 393

Ig G: 650 – 1590

Ig M: 53 - 408

Effective 11Feb82 – 02May91:

Ig A: 65 - 415

Ig G: 650 – 1600

Ig M: 50 - 320

Effective 01Jan79 – 10Feb82:

Ig A: 30 - 261 IU/mL

Ig G: 72 - 204 IU/mL

Ig M: 36 – 266 IU/mL



Test Name: Inborn Errors of Metabolism Screen

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Amino Acid Screen, Amino Acid, Reducing

Substances, Carbohydrates, Ketones, Protein, Homogentisic Acid, GAGS, Oligosaccharide,

Biotinidase, Succinyl Purine

Reference Ranges:

Obsolete Starting Feb. 11, 2005. Order Individual Tests, i.e., Carbohydrates Ur, Homogentisic Acid Ur, Oligosaccharide Scrn Ur, GAGs Ur, Amino Ac Qual Ur, Amino Ac Qual Pl, Biotinidase Serum.

Inborn Errors of Metabolism Screen

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 -11Feb05: Normally no abnormalities are detected. Normal biotinidase activity is reported as "activity detected". If abnormal results are detected, they are reported as narrative.

Performed at SmithKline Beecham, Van Nuys CA Effective until 18Sep94: Normally no abnormalities are detected.



Test Name: Indicans, Urine Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed **Indicans, Urine** *mg/24hr* Performed at SmithKline Beecham, Van Nuys CA Effective 01Jan79 – 30Dec80: 34 - 122

Performed at National Institutes of Health, Bethesda MD Effective until 01Jan79: No ranges available



Test Name: Influenza A Antibody Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Influenza A Antibody titer

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: IgG <1:10

IgM <1:10

The presence of IgM class antibodies or a fourfold or greater rise in paired sera IgG titer Indicates recent infection. The presence of demonstrable IgG generally indicates past exposure.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: <1:10

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: <1:10



Test Name: Influenza A Rapid Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Flu A Rapid

Reference Ranges:

Influenza A Rapid

Performed at National Institutes of Health, Bethesda MD Effective 07Dec94 - present: Negative for Influenzae A by EIA.



Test Name: Influenza A Rapid Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Flu A Rapid

Reference Ranges:

Influenza A Rapid

Performed at National Institutes of Health, Bethesda MD Effective 07Dec94 - present: Negative for Influenzae A by EIA.



Test Name: Influenza A Rapid Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Flu A Rapid

Reference Ranges:

Influenza A Rapid

Performed at National Institutes of Health, Bethesda MD Effective 07Dec94 - present: Negative for Influenzae A by EIA.



Test Name: Influenza B Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Influenza B Antibody titer

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: IgG <1:10

IgM <1:10

The presence of IgM class antibodies or a fourfold or greater rise in paired sera IgG titer Indicates recent infection. The presence of demonstrable IgG generally indicates past exposure.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: <1:10

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: <1:10



Test Name: Influenza Virus C **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Influenza Virus C

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: INH 5.0

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

INH 5.0

Performed at Centers for Disease Control, Atlanta GA No longer requested as of January 2000.



Test Name: INR-PT

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms: Prothrombin Time-INR, PT-INR

Reference Ranges:

INR-PT ratio

Performed at National Institutes of Health, Bethesda MD

Effective 25Jun97 - present: 2.0-3.0 Prophylaxis and treatment of venous thrombosis, pulmonary embolism, tissue heart valves, acute myocardial infarction, atrial fibrillation, valvular heart disease, and systemic embolization

Mechanical heart valves: 2.5-3.5



Test Name: Insulin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Insulin $\mu U/mL$ (SI: pmol/L = 7.217 x μ U/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 16Nov99 - present: 6.0 - 27.0 Effective 03May95 - 16Nov99: 3.0 - 18.0

Performed at Mayo Medical Labs, Rochester MN

Updated assay (does not cross react with proinsulin)

Effective 23Jun98 - 12Apr00: 1.4 - 14.0

Old assay performed at Mayo Medical Lab cross-reacts with proinsulin

Effective 19Sep94 - 22Jun98: 0.0 - 20.0

Effective 19Sep94 - 12Feb95: Gray Zone: 21.0 - 25.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 26Oct88 - 18Sep94: 5 - 25 Effective 22Jul88 - 25Oct88: 0 - 24 Effective 01Jan79 - 21Jul88: 4 - 24



Test Name: Insulin-Like Growth Factor II (IGFII)

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: IGF-2

Reference Ranges:

Insulin-Like Growth Factor II (IGFII) ng/mL

Performed at Esoterix Endocrinolgy, Calabasas Hills CA Effective 24Jul02 - present:

Prepubertal children: 334-642 (MEAN = 488) Pubertal children: 245-737 (MEAN = 491) Adults: 288-736 (MEAN = 512) Growth Hormone Deficiency: 51-299 (MEAN = 175)



Test Name: Insulin Antibodies
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Insulin Antibodies % **Bound** (SI: fraction bound = 0.01 x %Bound)

Includes bovine, porcine, human

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present: <3 %

Performed at SmithKline Beecham, Van Nuys CA

Effective 05May93 - 19Sep94: <3 %

Includes bovine and porcine

Effective 03Sep91 - 04May93: 0 titer Effective 04Apr89 - 02Sep91: <4 % Effective 01Dec87 - 03Apr89: 0 titer



Test Name: Intraocular Fluid Anti-Toxoplasmosis

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Intraocular Fluid Toxoplasmosis Antibody

Performed at National Institutes of Health, Bethesda MD Effective 11Jul01 - present:

Toxoplasma Antibody IgG, Total: Negative

Performed at Palo Alto Institute, Palo Alto CA

Effective 11Jul01 - present:

Toxoplasma Antibody IgG, Titer: Negative <1:16



Test Name: Intrinsic Factor Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Intrinsic Factor Antibody

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present:

Negative (reported as positive, negative or indeterminate).

The test is highly specific but has a relatively low sensitivity. It is positive in approximately 50% of pernicious anemia patients.

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Apr88 - 18Sep94:

Negative (reported as positive, negative or indeterminate).



Test Name: Iodine, Free, Urine Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: Iodide

Reference Ranges:

Iodine, Free, Urine

Performed at Mayo Medical Labs, Rochester MN Effective 12Dec95 – present: Iodine Concentration $42 - 350 \mu g/L$ (SI: μ mol/L = 0.078 x μ g/L) Urinary Free Iodine $100 - 460 \mu g/24hr$ (SI: μ mol/d = 0.078 x μ g/24hr)

Performed at SmithKline Beecham, Van Nuys CA Effective 22Jul88 – 11Dec95: Total Urine Iodine 2 – 48 μ g/dL (SI: μ mol/L = 0.78 x μ g/L)



Test Name: Iodine, Serum Laboratory Medicine

Lab Area:

Synonyms: PBI **Reference Ranges:**

Test no longer performed

Iodine, Serum $\mu g/dL$ (SI: nmol/L = 78 x μ g/dL) Performed at SmithKline Beecham, Van Nuys CA Effective 22Jul88 – 11Dec95:

Inorganic 0.5 - 1.0 Total 4.5 - 9.0 PBI 4.0 - 8.0



Test Name: Iodine, Total, Urine **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed. Replaced by Iodine, Urinary Free **Iodine, Total, Urine** Performed at SmithKline Beecham, Van Nuys CA Effective 22Jul88 – 11Dec95: Total Urine Iodine 2 – 48 μ g/dL (SI: μ mol/L = 0.78 x μ g/L)



Test Name: Iron and Transferrin **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Iron and Transferrin

Performed at National Institutes of Health, Bethesda MD

Iron, serum $\mu g/dL$ (SI: $\mu mol/L = 0.179 \text{ x } \mu g/dL$)

Effective 01Jan79 – present: 50 - 150

Transferrin mg/dL (SI: $g/L = 0.01 \times mg/dL$)

Effective 03Jul96 – present: 204 - 345 Effective 01Apr85 - 02Jul96: 230 - 390 Effective 01Jan79 - 31May85: 200 - 400

Transferrin (Iron) Saturation %:

Effective 01Jan79 – present: 15-62%



Test Name: Iron, Liver Tissue **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Iron, Liver Tissue

Performed at Mayo Medical Labs, Rochester MN Effective 25Jun97 – present:

Males $200 - 2400 \mu g/g \, dry \, weight$ Females $400 - 1600 \, \mu g/g \, dry \, weight$ Iron Index $0 - 0.9 \, \mu mol/g/year$



Test Name: Iron, Total, Urine Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

Iron, Total, Urine $\mu g/24hr$ (SI: μ mol/d = 0.0179 x μ g/24hr)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 100 - 300

Performed at SmithKline Beecham, Van Nuys CA

Effective 18Jan90 - 18Sep94: 0 - 300



Test Name: Islet Cell IgG Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Islet Cell IgG Antibody

Performed at ARUP Laboratories, Salt Lake City UT Effective 19May02 – present: <1:4 No antibody detected.

Islet cell antibodies have been associated with "autoimmune" endocrine disorders and insulin-dependent diabetes. This disorder is characterized by the presence of antibodies in patients that may be detected years before the onset of the clinical symptoms. To calculate JDF units, multiply the titer $x ext{ 5}$. E.g. (1:8 $8x ext{ 5} = 40$ JDF units.)

Performed by Specialty Laboratories, Santa Monica CA Effective 08Dec99 – 18May02: 0 – 4 *JDF units*



Test Name: Itraconazole and Hydroxyitraconazole

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Itraconazole and Hydroxyitraconazole $\mu g/mL$

Performed at Mayo Medical Labs, Rochester MN Effective 17Dec97 - present:

Patients receiving doses of 50-400 mg/day generally attain steady-state serum levels of Itraconazole plus hydroxyitraconazole (total combined) in the range of 0.30-7.0 µg/mL.



Test Name: Kanamycin 5.0 **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Kanamycin 5.0

Performed at Centers for Disease Control, Atlanta GA No longer requested as of January 2000.



Test Name: Ketones, Serum Laboratory Medicine

Lab Area: Chemistry
Synonyms: Acetone

Reference Ranges:

Ketones, Serum

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 - present: Negative



Test Name: Ketones, Urine Laboratory Medicine

Lab Area: Chemistry
Synonyms: Acetone

Reference Ranges:

Ketones, Urine

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 - present: Negative



Test Name: Lactate, L-, Whole Blood **Department:** Laboratory Medicine

Lab Area: Chemistry
Synonyms: Lactic acid

Reference Ranges:

Lactate, L-, Whole Blood *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jul01 - present: 0.5 - 2.2



Test Name: Lactate, L-, CSF **Department:** Laboratory Medicine

Lab Area: Chemistry
Synonyms: Lactic Acid

Reference Ranges:

Lactate, CSF mmol/L (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 25Jun97 – present: 1.1 – 2.4 Effective 14Nov85 – 24Jun97: 0.2 - 0.4 Effective 01Jan79 – 13Nov85: 0.5 - 2.2



Test Name: Lactate, L-, Plasma Laboratory Medicine

Lab Area: Chemistry
Synonyms: L-Lactic acid

Reference Ranges:

Lactate, L-, Plasma *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 18Oct79 - present: 0.5 - 2.2

Effective 01Jan79 - 17Oct79: $5 - 20 \, mg/dL$ (SI: mmol/L = 0.0111 x mg/dL)



Test Name: Lamotrigine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Lamictal

Reference Ranges:

Lamotrigine $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL) Performed at Mayo Medical Labs, Rochester MN Effective 10May00 – present: Trough 1.0 – 4.0

Trough 1.0 - 4.0Peak 12.0 - 20.0

Automatic call-back >= 20.0

Patients receiving doses within the recommended range (50-400 mg/day) usually have lamotrigine concentrations between 1 and 4 μ g/mL.

A therapeutic range and toxic level have yet to be established for lamotrigine. The serum concentration should be interpreted in the context of the patient's clinical response and may provide useful information in patients showing poor response (noncompliance?) or adverse effects, particularly when lamotrigine is co-administered with other anticonvulsant drugs.



Test Name: LD Isoenzymes **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: LDH, Lactate Dehydrogenase

Reference Ranges:

LD Isoenzymes % (SI: frac activity = $0.01 \times \%$)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

LD1 13 – 25

LD2 29 - 39

LD3 15-29

LD4 9-17

LD5 6 - 16



Test Name: LD, Fluid

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: LDH, Lactate Dehydrogenase

Reference Ranges:

LD, Fluid U/L

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: 113-226 U/L



Test Name: LD, Serum

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: LDH, Lactate Dehydrogenase

Reference Ranges:

LD, Serum *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 – present: 113 – 226 Effective 01Jul85 - 30Nov88: 114 - 213 Effective 01Jan79 - 30Jun85: 133 - 248



Test Name: Lead, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Lead, Urine $\mu g/24hr$ (SI: $\mu mol/d = 0.00483 \text{ x } \mu g/24hr$)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 0 - 79

Interpretation:
Normal: <80
Inconclusive: 80-400
Abnormal: >400

The reference value is for a 24-hour collection. Specimens collected for other than a 24-hour period are reported in units of $\mu g/L$ (SI: $\mu mol/L = 0.00483 \text{ x } \mu g/L$), for which reference values

are not established.

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Nov85 - 18Sep94: $<80 \,\mu\text{g/L}$ Effective 01Jan79 - 13Nov85: $<100 \,\mu\text{g/L}$

Test Name: Lead, Whole Blood Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Lead, Whole Blood $\mu g/dL$ (SI: $\mu mol/L = 0.0483 \text{ x } \mu g/dL$) Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present:

1D-15Y 0.0 – 9.0 16Y-150Y 0.0 – 19.0

Toxic Concentration

1D-15Y >= 20 16Y-150Y >= 70

Performed at SmithKline Beecham, Van Nuys CA

Effective 23Dec91 – 18Sep94:

1D-6Y <10 7Y-150Y <25

Effective 22Jul88 – 22Dec91: <25

Effective 01Jul85 – 21Jul88:

1D-11Y <19 >= 12Y <39

Effective 01Jan79 – 30Jun85:

1D-6Y <30 7Y-150Y <60



Test Name: Lee-White

Department: Laboratory Medicine

Lab Area:

Synonyms: Lee White

Reference Ranges:

Test no longer performed

Lee-White minutes

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 - 22Dec91: 7 - 10



Test Name: Legionella Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Legionella Antibody

Performed at Mayo Medical Labs, Rochester MN Effective 26Sep02 - present: Results reported as Positive, Negative or Equivocal

Effective 21Mar00 - 26Sep02:

Titers of <1:64 are reported as negative.

Titers of 1:64 are considered not significant.

Seroconversion requires a foufold rise in titer to >=1:128. A single titer of >=1:256 may be compatible with current or past infection. A change in titer between an acute and convalescent serum is the best evidence of current infection.

Effective 19Sep94 - 21Mar00:

May indicate current or past infection: >1:256

Seroconversion requires a fourfold rise in titer to >=1:128. A change in titer between an acute and convalescent serum is the best evidence of current infection.

A single titer of >= 1:256 may be compatible with current or past infection. A four-fold rise in titer between an acute and convalescent serum is the best evidence of current infection.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective 02Mar87 - 31Aup90: No ranges available

Performed at Centers for Disease Control, Atlanta GA Effective until 01Mar86: No ranges available



Test Name: Legionella ATG **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: Legionella urinary antigen

Reference Ranges:

Legionella ATG

Performed at National Institutes of Health, Bethesda MD Effective 06Nov96 – present:

Negative for Legionella pneumophila serogroup 1 by EIA

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – 05Nov96: Noted on report

Performed at American Medical Labs, Chantilly VA Effective 01Aug90 – 18Sep94: Noted on report



Test Name: Legionella Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Legionella Culture, Blood

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Legionella isolated



Test Name: Legionella Culture **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Thoracentesis

Reference Ranges:

Legionella Culture, Pleural Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Legionella isolated



Test Name: Legionella pneumophila PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Legionnaire's Diseae

Reference Ranges:

Legionella pneumophila PCR, Bronchial Lavage

Performed at National Institutes of Health, Bethesda MD Effective 15Sep99 – present Negative for Legionella pneumophila by PCR



Test Name: Legionella pneumophila PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Legionella pneumophila PCR, Sputum

Performed at National Institutes of Health, Bethesda MD Effective 15Sep99 – present Negative for Legionella pneumophila by PCR



Test Name: Leishmaniasis Antibody Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: Kala-Azar

Reference Ranges:

Leishmaniasis Antibody

L.donovani, L.braziliensis, L.mexicana, L.tropicalis

Performed at Focus Technologies, Cypress CA Effective 19Sep94 - present:

IgG < 1:16 IgM < 1:20

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Leptin

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: LEPK1

Reference Ranges:

Leptin ng/mL

Performed at Mayo Medical Labs, Wilmington MA Effective 13Aug03 – present: No reference ranges available

Performed at Esoterix Endocrinology, Calabasas Hills CA Effective 12Feb03 – 122Aug03:

Male >=18Y 0.7 - 5.3 Female >=18Y 3.3 - 18.3



Test Name: Leptospira Antibody Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Leptospira Antibody titer

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present:

<1:50 Negative; no serologic evidence of leptospirosis

1:50 Borderline Positive; patients should be evaluated for clinical correlations with active or recent leptospirosis. Follow-up specimens should be ordered for serology and isolation of live leptospires.

> or = 1:100 Positive for leptospiral antibody. Serological evidence of active or recent leptospirosis.

Performed at SmithKline Beecham, Van Nuys CA Leptospira Antibody, Agglutination Effective 01Sep90 – 18Sep94: Negative

Performed at American Medical Labs, Chantilly VA Effectove 02Mar86 – 31Aug90: Negative

Performed at Center for Disease Control, Atlanta GA Effective until 01Mar86: Leptospira Factor: Negative



Test Name:
Department:
Lab Area:
Laboratory Medicine
Mayo Medical Labs
Leucine Aminopeptidase

Reference Ranges:

Leucine Arylamidase U/mL (SI: kU/L = 1.0 x U/mL)

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 19Sep94 - present: 1.0 - 3.3

Performed at SmithKline Beecham, Van Nuys CA Effective 01Jan79 – 18Sep94: 8 - 22 *mU/mL*



Test Name: Leukocyte Alkaline Phosphatsase

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms: LAP **Reference Ranges:**

Leukocyte Alkaline Phosphatsase score

Performed at National Institutes of Health, Bethesda MD

Effective 13Mar02 – present:

Low: 0-27Normal: 28-166Elevated: >=167

Effective 18Sep86 – 12Mar02:

Low: 0-35Normal: 36-91Elevated: ≥ 92



Test Name: Levetiracetam **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Keppra

Reference Ranges:

Levetiracetam $\mu g/mL$ ($\mu g/mL = mg/L$)

Performed Mayo Medical Labs, Rochester MN

Effective 13Feb03 – present:

Peak Concentration: 10-63 μg/mL Trough Concentration: 3-34 μg/mL

Performed by Medtox Labs, St. Paul MN

Effective 12Jul01 – 11Feb03:

Expected steady state trough concentrations in patients receiving recommended daily dosages:

 $5-45 \mu g/mL$

Toxic range has not been established.



Test Name: Lidocaine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Xylocaine

Reference Ranges:

Lidocaine mg/L (SI: $\mu mol/L = 4.27 \text{ x mg/L}) (mg/L=\mu g/mL)$

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 – present:

Therapeutic 2.0 - 5.0Toxic >= 6.0

Performed at American Medical Labs, Chantilly VA

Effective until 30May95:

Therapeutic 1.5 - 6.0

Toxic:

CNS, Cardiovascular Depression 6.0 - 8.0

Seizures, Obtundation, and Decreased Cardiac Output >8.0



Test Name: Lipase, Fluid

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Lipase, Fluid U/L

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: 9 - 58

(Reportable range: 3-3300)



Test Name: Lipase, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Lipase, Serum *U/L* (SI: U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 15Aug99 – present: 9 - 58 Effective 06Dec95 – 22Aug99: 21 - 132 Effective 06Feb92 – 05Dec95: 48 - 281 Effective 01Jan79 – 05Feb92: 60 - 320

Test Name: Lipid Panel

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Lipid Panel

Cholesterol, Total mg/dL (SI: mmol/L = 0.0259 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 07Feb96 – present: Desirable <200

Borderline high risk 200-239

High risk >=240

Effective 12Jul89 – 06Feb96: 100 – 200

Effective 01Dec88 – 11Jul89: 75 – 200

Effective 04Nov87 – 30Nov88:

2Y-19Y 75 – 175

20Y-29Y 75 – 206

30Y-39Y 75 – 226

>=40Y 75 - 247

Effective 08Jan81 – 04Nov87: 163 – 263

Effective 01Jan79 - 07Jan81: 150 - 250

Cholesterol, LDL mg/dL (SI: mmol/L = 0.0259 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 13Jun01 – present:

Optimal <100 Near or above optimal 100-129

Borderline high risk 130-159 High risk 160-189

Very high risk >=190

Effective 24Jan95 – 12Jun01:

Desirable: 65 - 129Moderate Risk: 130 - 159

High Risk: >=160

Effective 07Feb96 – 12Jun01:

Optimal in CHD: <=100 Higher than Optimal in CHD: >100

Cholesterol, HDL mg/dL (SI: mmol/L = 0.0259 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 13Jun01 – present:

Low (high risk) <40 High (low risk) >=60

Effective 07Feb96 – 12Jun01:

Negative risk >=60Average risk 35-59Major risk <35

Effective 10Oct91 – 06Feb96:

M/F Decreased Risk >=35

Effective 04Jan89 – 09Oct91:

Male

Decreased Risk >45
Increased Risk <45
Average Risk 45

Female

Decreased Risk >55 Increased Risk <55 Average Risk 55

Effective 01Oct87 – 03Jan89:

5Y-19Y F: 35 - 74 M: 30 - 74 20Y-29Y F: 33 - 83 M: 30 - 63 30Y-39Y F: 34 - 82 M: 28 - 63 40Y-49Y F: 34 - 88 M: 27 - 67 50Y-59Y F: 37 - 92 M: 28 - 71 60Y-69Y F: 35 - 98 M: 30 - 78 >70Y F: 33 - 92 M: 31 - 75

Effective 06Nov85 – 30Sep87:

0Y-19Y F: 30 - 70 M: 30 - 65 20Y-29Y F: 35 - 75 M: 35 - 70 30Y-39Y F: 35 - 85 40Y-49Y F: 40 - 95 >49Y F: 35 - 85 >29Y M: 30 - 65

Effective 26Mar80 – 05Nov85: 29 – 77

Triglycerides mg/dL (SI: mmol/L = 0.0113 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 13Jun01 – present:

Normal <150

Borderline high risk 150-199

High risk 200-499

Very high risk >=500

Effective 01Jan79 – 12Jun01:

0Y-9Y not establ.

10Y-29Y 10 - 140

 $30Y-39Y \quad 10-150$

 $40Y-49Y \quad 10-160$

50Y-59Y 10 – 190

>59Y not established



Test Name: Lipid & Starch, Feces **Department:** Laboratory Medicine

Lab Area:

Synonyms: Malabsorption Screen, Excess Fat, Lipid

Qualitative

Reference Ranges:

Tests no longer performed

Lipid & Starch, Feces

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jul92 – 18Sep94:

Lipid, Fecal, Qualitative

Normal Results: No Fat Observed, Few Neutral Fat Globules, Few Large Fatty Acid Globules,

Few Soaps, Any am't of Small Fatty Acid Globules

Malabsorption Screen, Fecal

Performed at MetPath Labs, Rockville MD

Effective 02Aug89 – 30Jun92:

Good Digestion 0

Poor Digestion 1 - 4



Test Name: Lipoprotein Electrophoresis

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Lipoprotein Electrophoresis % (SI: Mass fr = 0.01 x %)

Performed at National Institutes of Health, Bethesda MD

Effective 02Dec92 – present:

Alpha 17-46Pre-beta 2-32Beta 39-66Chylomicrons 0-2



Test Name: Lithium

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Lithium *mmol/L* (SI: mmol/L) (mEq/L = mmol/L) Performed at National Institutes of Health, Bethesda MD

Effective 07May92 – present:

Therapeutic 0.6 - 1.2Toxic >2.0

Effective until 06May92:

Therapeutic $0.6 - 1.2 \, mEq/L$

Toxic >1.5



Test Name: Lithium, CSF

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Lithium, CSF *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Therapeutic Not defined Toxic Not defined



Test Name: Liver/Kidney Microsomal Antibody

Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Anti-L/K

Reference Ranges:

Liver/Kidney Microsome Type 1 Antibody units

Performed at Mayo Medical Labs, Rochester MN

Effective 02Apr02 – present:

Negative <=20.0 Equivocal 20 – 24.9 Positive >=25.0

Effective 19Sep94 – 01Apr02: Negative, titer done if positive

Performed at SmithKline Beecham, Van Nuys CA Effective 10Feb91 – 18Sep94: Negative, titer done if positive



Test Name: Loa loa PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Loa loa PCR

Performed at National Institutes of Health, Bethesda MD Effective 07Dec94 – present: Negative for Loa loa by PCR



Test Name: Lupus Anticoagulant - DRVV

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms: Dilute Russell's Viper Venom

Reference Ranges:

Lupus Anticoagulant - DRVV

Performed at National Institutes of Health, Bethesda MD Effective 02Feb00 – present Page beeper 104-2359-7, Hematology Consultant for interpretation.



Test Name: Lupus Anticoagulant - Staclot LA

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Lupus Anticoagulant - Staclot LA

Performed at National Institutes of Health, Bethesda MD Effective 02Feb00 – present Page beeper 104-2359-7, Hematology Consultant for interpretation.



Test Name: Luteinizing Hormone Laboratory Medicine

Lab Area: Chemistry

Synonyms: LH **Reference Ranges:**

Luteinizing Hormone U/L (SI:U/L) (mIU/mL = U/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Sep93 – present:

Male Adult 2-12

Female

Follicular 2-12Mid-Cycle Peak >20Luteal 1-13Post menopausal 15-59

Effective 02May91 – 31Aug93: mIU/mL

Male Adult 6 - 17 Male/Female Child 0 - 9

Female

Follicular 3 - 20 Ovulatory >35 Luteal 3 - 22 Post menopausal >25

Performed at SmithKline Beecham, Van Nuys CA

Effective 04Jan89 – 01May91: mIU/mL

Male Adult 6 - 17 Male/Female Child 0 - 9

Female

Follicular 3 - 20 Ovulatory >35 Luteal 3 - 22 Post menopausal >25

Effective 01Oct87 – 03Jan89: mIU/mL

Male Adult 0 - 12 Male/Female Child 0 - 4

Female

Follicular 0 - 15 Ovulatory 13 - 145 Luteal 0 - 15 Post menopausal 20 - 200



Test Name: Lyme Antibody Elisa NEMC

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Borrelia Burgdorferi

Reference Ranges:

Lyme Antibody Elisa NEMC

Performed at New England Medical Center, Boston MA Effective 08May96 – present



Test Name: Lyme Disease **Department:** Laboratory Medicine

Lab Area:

Synonyms: LYELN

Reference Ranges:

Performed at New England Medical Center



Test Name: Lyme Disease Antibody ELISA NEMC

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Borrelia Burgdorferi, BBABE

Reference Ranges:

Lyme Antibody Elisa NEMC

Performed at New England Medical Center, Boston MA Effective 08May96 – present



Test Name: Lyme Disease Antibody ELISA SB

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Borrelia Burgdorferi, LYELS

Reference Ranges:

Lyme Disease Antibody ELISA SB

Performed at Stony Brook Medical Center, Stony Brook NY Effective 08May96 – present



Test Name: Lyme Disease Antibody, Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Borrelia burgdorferi, Western blot

Reference Ranges:

Lyme Disease Antibody

Performed at Mayo Medical Labs, Rochester MN

Effective 01Jul04 – present:

IgG: nonconfirmatory < 5 bands

if reactive, >= 5 bands is confirmatory

IgM: nonconfirmatory <2 bands

EIA (Enzyme Immunoassay): Results reported as Positive, Negative or Equivocal.

Western Blot

IgG: Nonconfirmatory < 5 bands IgM: Nonconfirmatory < 2 bands

Note: The Western blot assay for IgG antibody and the Western blot for IgM antibodies to B. burgdorferi are automatically performed to confirm positive EIA results.

Note: According to recent recommendations by the Centers for Disease Control, the identification of five or more Western blot protein species by IgG is confirmation of infection with B.burgdorferi and is consistent with late Lyme disease. A positive assay for IgM is confirmatory for infection with B. burgdorferi and is more likely to be useful during early disease.

Protein species used for the interpretation of Western blots include the following: 18, OspC(9-22), 28, 30, 39, 41, 45, 58, 66, 93.

Effective 08Jul03 – 30Jun04:

IgG: nonconfirmatory <=4 bands

if reactive, >= 5 bands is confirmatory

IgM: normal value is negative

EIA (Enzyme Immunoassay): Results reported as Positive, Negative or Equivocal.

Note: The Western blot assay for IgG antibody and the indirect immunofluorescence assay (IFA) for IgM antibodies to B. burgdorferi are automatically performed to confirm positive EIA results.

Western Blot

IgG: Nonconfirmatory <=4 bands

IgM, IFA: Negative (reported as positive or negative)

Note: According to recent recommendations by the Centers for Disease Control, the identification of five or more Western blot protein species by IgG is confirmation of infection

with B.burgdorferi and is consistent with late Lyme disease. A positive assay for IgM is confirmatory for infection with B. burgdorferi and is more likely to be useful during early disease.

Protein species used for the interpretation of Western blots include the following: 18, OspC(9-22), 28, 30, 39, 41, 45, 58, 66, 93.

Effective 27Aug96 – 07Jul03:

IgG: nonconfirmatory <=4 bands

if reactive, >= 5 bands is confirmatory

IgM: normal value is negative

ELFA (Enzyme-Linked Fluorescent Immunoassay): Results reported as Positive or Negative.

Effective 19Sep94 – 26May95: Nonreactive <249 ABR Weakly reactive 250 – 999 ABR Reactive >= 1000 ABR

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: Negative

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: Negative



Test Name: Lysozyme, Plasma Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: Muramidase

Reference Ranges:

Lysozyme, Plasma $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL) Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 0.2 - 15.8

Performed at SmithKline Beecham, Van Nuys CA

Effective 01May86 – 18Sep94: 2.8 - 8.0

Effective 01Jan79 - 30Apr86: 0.0 - 10.0



Test Name:Lysozyme, UrineDepartment:Laboratory MedicineLab Area:Mayo Medical Labs

Synonyms: Muramidase

Reference Ranges:

Lysozyme, Urine mg/24hr (SI: mg/d = 1.0 x mg/24hr) **Lysozyme, Urine** $\mu g/mL$ (SI: mg/L = 1.0 x $\mu g/mL$) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: $0.0 - 3.0 \ mg/24hr$

Performed at SmithKline Beecham, Van Nuys CA Effective 01May86 – 18Sep94: $0.0 - 1.9 \mu g/mL$ Effective 01Jan79 – 30Apr86: $0.0 - 2.0 \mu g/mL$



Test Name: Magnesium, CSF **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: Mg **Reference Ranges:**

Magnesium, CSF *mmol/L* (SI: mmol/L = $0.411 \times \text{mg/dL}$ or, mmol/L = $0.5 \times \text{mEq/L}$)

Performed at National Institutes of Health, Bethesda MD

Effective 31Jul90 – present: 1.0 - 1.35

Effective 12Apr89 – 30Jul90: 2.0 - 2.7 *mEq/L* Effective 14Nov85 – 11Apr89: 2.4 - 3 *mEq/L* Effective 01Jan79 – 13Nov85: 2.0 - 2.7 *mEq/L*



Test Name: Magnesium, Ionized, Serum

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: iMg **Reference Ranges:**

Magnesium, Ionized, Serum *mmol/L* (SI: mmol/L = $0.411 \times \text{mg/dL}$ or, mmol/L = $0.5 \times \text{mEq/L}$)

Performed at National Institutes of Health, Bethesda MD

Effective 10May00 - present: 0.44 - 0.60



Test Name: Magnesium, Ionized, Whole Blood

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Magnesium, Ionized, Whole Blood mmol/L (SI: mmol/L = 0.411 x mg/dL; or, mmol/L = 0.5

x mEq/L)

Performed at National Institutes of Health, Bethesda MD

Effective 10May00 - present: 0.44 - 0.60



Test Name: Magnesium, Serum **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: Mg **Reference Ranges:**

Magnesium, Serum mmol/L (SI: mmol/L = 0.411 x mg/dL or, mmol/L = 0.5 x mEq/L)

Performed at National Institutes of Health, Bethesda MD

Effective 06Dec95 – present: 0.75 – 1.00 Effective 01Aug90 - 05Dec95: 0.65 - 1.05

Effective 14Nov85 - 31Jul90: 1.3 - 2.1 *mEq/L* Effective 01Jan79 - 13Nov85: 1.4 - 2 *mEq/L*



Test Name: Magnesium, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Magnesium, Urine

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug00 – present: 3.0-4.25 *mmol/24hr* (SI: mmol/24hr) Effective 02Mar02 – present: Random *mmol/L*: No ranges established

Effective 01Aug90 – 01Mar02: Random 0.1 - 12.5 mmol/L

Effective 02Jun82 - 31Jul00: $6.0 - 8.5 \, mEq/24hr \, (mmol x 2 = mEq)$



Test Name: Malarial Smear **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Blood parasites

Reference Ranges:

Malarial Smear

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No parasites seen



Test Name: Measles Antibody IgG **Department:** Laboratory Medicine

Lab Area: Immunology
Synonyms: Anti-Rubeola

Reference Ranges:

Measles Antibody IgG units

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug97 – present:

Negative: <=0.900 Equivocal: 0.901 - 1.099 Positive: >=1.100

Effective 02Jul92 – 31Jul97: Negative <=0.900 *units* Equivocal 0.901 - 0.999 *units* Positive >=1.000 *units*

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 01Jul92: No Ranges Available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No Ranges Available



Test Name: Meningococcal IgG Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Meningococcal IgG Antibody $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL)

Performed at Focus Technologies, Cypress CA

Effective 06Mar99 - present:

Serogroup A: <4.0 Serogroup B: <1.0

Reference ranges apply to pre-vaccination samples only.

The response to meningococcal vaccination is best assessed by comparing antibody levels in pre-vaccination and post-vaccination sera tested in parallel. Post-vaccination IgG levels should be at least four-fold greater than pre-vaccination levels for both serogroups. Meningococcal IgG levels peak approximately one month post-vaccination, but decline markedly by two years.



Test Name: Mercury, Urine
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Mercury, Urine $\mu g/24hr$ (SI: mmol/d = 00.00499 x $\mu g/24hr$) Mercury, Urine $\mu g/L$ (SI: mmol/L = 00.00499 x $\mu g/L$)

Performed at Mayo Medical Labs, Rochester MN Effective 31Mar95 – present: $0.0 - 9.9 \mu g/24hr$

Toxic concentration $>50 \mu g/24hrs$

The concentration at which toxicity is expressed is widely variable between patients. $50 \mu g/24$ hours is the lowest concentration at which toxicity is usually apparent.

The reference value is for a 24-hr collection. Specimens collected for other than a 24-hr time period are reported in units of $\mu g/L$, for which reference values are not established.

Effective 19Sep94 - 30Mar95: $0.0 - 19.0 \,\mu g/24hr$

Performed at SmithKline Beecham, Van Nuys CA Effective 01Jan79 – 18Sep94: 0.0 – 20.0 µg/L

Test Name: Metanephrines, Fractionated, 24hr Ur

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Normetanephrines, unconjungated, total

metanephrines

Reference Ranges:

Metanephrines, Fractionated, Urine µg/24hr

Performed at Mayo Medical Labs, Rochester MN

Effective 18Apr02 – present:

Metanephrine, Unconjugated (SI: nmol/d = $5.07 \times \mu g/24hr$)

Males

3Y-8Y 29 - 92

9Y-12Y 59 - 188

13Y-17Y 69 - 221

>= 18Y 44 - 261

Females

3Y-8Y 18 - 144

9Y-12Y 43 - 122

13Y-17Y 33 - 185

 $>= 18Y \quad 30 - 180$

Hypertensive adults: <400

Normetanephrine (SI: nmol/d = $5.46 \times \mu g/24hr$)

Males

3Y-8Y 34 - 169

9Y-12Y 84 - 422

13Y-17Y 91 - 456

Females

3Y-8Y 29 - 145

9Y-12Y 55 - 277

13Y-17Y 57 - 286

M & F

18Y-29Y 103 - 390

30Y-39 Y 111 - 419

40Y-49Y 119 - 451

50Y-59Y 128 - 484

60Y-69Y 138 - 521

70+ Y 148 - 560

Hypertensive adults: <900

Total Metanephrines (SI: nmol/d = $5.07 \times \mu g/24hr$)

Males

3Y-8Y 47 - 223

```
9Y-12Y 201 - 528
13Y-17Y 120 - 603
18Y-29Y 190 - 583
30Y-39Y 200 - 614
40Y-49Y 211 - 646
50Y-59Y 222 - 680
60Y-69Y 233 - 716
70 + Y
         246 - 753
Females
3Y-8Y
         57 - 210
9Y-12Y 107 - 394
13Y-17Y 113 - 414
18Y-29Y 142 - 510
30Y-39Y 149 - 535
40Y-49Y 156 - 561
50Y-59Y 164 - 588
60Y-69Y 171 - 616
70 + Y
        180 - 646
```

Effective 15Dec97 – 17Apr02:

Hypertensive adults: <1300

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Metanephrines Unconjugated

>= 18Y Males 26 - 230

>= 18Y Females 19 - 140

Normetanephrines

>= 18Y Males 44 - 540

>= 18Y Females 52 - 310

Total Metanephrines

>= 18Y Males 90 - 690

>= 18Y Females 95 - 475

Effective 15Dec95 – 17Apr02:

Metanephrines Unconjugated

3Y-8Y 9 - 86

9Y-12Y 26 - 156

13Y-17Y 31 - 156

Normetanephrines

3Y-8Y 20 - 186

9Y-12Y 10 - 319

13Y-17Y 71 - 395

Total Metanephrines

3Y-8Y 47 - 260

9Y-12Y 72 - 410

13Y-17Y 130 - 520

Effective 19Sep94 – 14Dec97: Metanephrines >=18Y 45 - 290

Normetanephrines >=18Y 82 - 500

Total Metanephrines >=18Y 120 - 700

Effective 19Sep94 – 14Dec95:

Metanephrines Unconjugated

3Y-8Y 5 - 113

9Y-12Y 21 - 154

13Y-17Y 32 - 167

>=18Y 45 - 290

Normetanephrines

3Y-8Y 13 - 252

9Y-12Y 32 - 346

13Y-17Y 63 - 402



Test Name: Metanephrines, Fractionated, Random Ur

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Normetanephrine

Reference Ranges:

Metanephrines, Fractionated, Random Ur ug/g Creat

Performed at Mayo Medical Labs, Rochester MN Effective 18Apr02 to present:

Metanephrine

0Y-2Y 82 - 418 3Y-8Y 65 - 332 9Y-12Y 41 - 209 13Y-17Y 30 - 154 18Y+ 29 - 158

Normetanephrine

0Y-2Y 121 - 946 3Y-8Y 92 - 718 9Y-12Y 53 - 413 13Y-17Y 37 - 286 Males

30Y-39Y 60 - 216 40Y-49Y 69 - 247 50Y-59Y 78 - 282 60Y-69Y 89 - 322

18Y-29Y 53 - 190

70Y+ 102 - 367

Females

18Y-29Y 81 - 330 30Y-39Y 93 - 379 40Y-49Y 107 - 436 50Y-59Y 122 - 500

60Y-69Y 141 - 574

70Y+ 161 - 659

Total Metanephrine

0Y-2Y 241 - 1272 3Y-8Y 186 - 980 9Y-12Y 110 - 582 13Y-17Y 78 - 412

Males

18Y-29Y 96 - 286 30Y-39Y 106 - 316 40Y-49Y 117 - 349 50Y-59Y 130 - 386 60Y-69Y 143 - 427 70Y+ 159 - 472 Females 18Y-29Y 131 - 467 30Y-39Y 147 - 523 40Y-49Y 164 - 585 50Y-59Y 184 - 655 60Y-69Y 206 - 733 70Y+ 230 - 821



Test Name: Metanephrines, Plasma, Fractionated

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Metanephrines, Plasma, Fractionated pg/mL

Performed at National Institutes of Health, Bethesda MD

Effective 11Apr01 – present:

Normetanephrine, Free 18 - 112 (SI: nmol/L = 0.0056 x pg/mL)

.... · F

Metanephrine, Free 12-61 (SI: nmol/L = 0.0052 x pg/mL)



Test Name: Metanephrines, Total, Conjugated (Obsolete)

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed as of Apr 17, 2002 **Metanephrine, free + conjugated** *mg/24hr* (µmol/d= 5.07 x mg/24hr)

Performed at Mayo Medical Labs, Rochester MN

Effective 01Jun94 - 17Apr02: 0.0 - 1.2

Performed at SmithKline Beecham, Van Nuys CA

Effective 04Jan89 - 31May94: < 0.9 Effective 01Jan79 - 03Jan89: 0.3 – 0.9

Fractionated Urine Metanephrines, which includes the total should be ordered instead.

Test Name: Methemoglobin **Department:** Laboratory Medicine

Lab Area: Chemistry **Synonyms:** hgb, hb

Reference Ranges:

Methemoglobin percent (SI: Mass fr = 0.01 x percent)

Performed at National Institutes of Health, Bethesda MD

Effective 19Feb03 – present:

Normal <2

Performed at Quest Diagnostics, Baltimore MD

Effective 13Nov02 – 18Feb03:

Normal <3

Toxic 35-50

Lethal 70

Performed at American Medical Labs, Chantilly VA

Effective 20Jan99 – 12Nov02: 0 - 1.6

Hemoglobin g/dL

Male/Female 4Y-6Y 11.0 - 14.5

Male/Female 7Y-12Y 11.5 - 15

Female $\ge 13Y$ 11.5 - 15

Male:

13Y-14Y 12.0 - 15.0 15Y-19Y 12.0 - 16.8 20Y-39Y 13.0 - 17.2

40Y-49Y 12.8 - 17.2

50+ Y 12.4 - 17.2

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – 19Jan99: 0 - 1.9



Test Name: Methotrexate, CSF **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Methotrexate,CSF μmol/L (SI: μmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 03Feb93 - present: Therapeutic not defined

Toxic depends on dose and infusion

Consult study PI or clinical pharmacist for level interpretation.



Test Name: Methotrexate, Serum **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Methotrexate, Serum μmol/L (SI: μmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 03Feb93 - present: Therapeutic not defined

Toxic

1-2 wk after low dose therapy >0.02

24 hr after hi dose therapy >=5

48 hr after hi dose therapy >=0.5

72 hr after hi dose therapy >=0.05

Minimum toxic concentration >0.01

Toxic: depends on dose and infusion. Consult study PI or clinical pharmacist for level interpretation.



Test Name: Methylmalonic Acid, Quantitative

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Methylmalonic Acid, Quantitative μmol/L (SI: μmol/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 21Aug96 – present: 0 - 0.4



Test Name: Mexiletine

Test Name: Mexiletine
Laboratory Medicine
Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Mexiletine mg/L (SI: $\mu mol/L = mg/L \times 5.58$) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - present: Therapeutic 0.75 - 2.0

Toxic >2.0

Performed at SmithKline Beecham, Van Nuys CA Effective 02Apr92 - 18Sep94:

The rapeutic 0.7 - 2.0Toxic >2.0

Effective until 18Sep94: The rapeutic 0.7 - 2.0Toxic not listed



Test Name: MHPG, Urine

Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: 3-Methoxy-4-Hydroxy-Phenylglycol

Reference Ranges:

MHPG, Urine mg/24hrs (SI: $\mu mol/d = 5.43 \text{ x mg}/24hrs$)

Performed at Mayo Medical Labs, Rochester MN

Effective 02Oct96 - present: 0.9 - 3.5

THERAPEUTIC INDICATIONS

Subclass I: <1.9 mg/24 hrs Subclass II: >2.5 mg/24 hrs Subclass III: 1.9-2.5 mg/24 hrs

NOTE: Creatinine value between 16-25 mg/kg/d verifies 24-hour collection, if renal function is within normal range.



Test Name: Microalbumin, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Microalbumin, Urine

Performed at National Institutes of Health, Bethesda MD Effective 03Apr96 – present: Excretion rate $0 - 19.9 \mu g/min$

Effective 10May00 – present: Microalbumin random 0 – 20.9 mg/L

Effective 10Jun98 – 09May00: Microalbumin random 0 – 29.9 mg/L

Performed at Mayo Medical Labs, Rochester MN Effective 03Apr96 – 09Jun98: Excretion rate <30 mg/24hr



Test Name: Microalbumin/Creatinine Ratio

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Microalbumin/Creatinine Ratio mg/g creat

Performed at National Institutes of Health, Bethesda MD

Effective 10Jun98 - present: 0.0 - 16.9



Test Name: Mineral Panel **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Mineral Panel

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 - present: Albumin 3.7-4.7 g/dL

Calcium 2.05-2.5 *mmol/L* (includes supine and upright normal subjects)

Magnesium 0.75-1.00 mmol/L

Phosphorus 2.5-4.8 *mg/dL* (>18 yrs)

Effective 01Dec88 – 10Jun03:

Albumin $3.7-4.7 \ g/dL$

Calcium 2.05-2.5 *mmol/L* (includes supine and upright normal subjects)

Magnesium 0.75-1.00 *mmol/L*

Phosphorus $2.3-4.3 \, mg/dL$ (>18 yrs)



Test Name: Mitochondrial (M2) Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: AMA

Reference Ranges:

Mitochondrial (M2) Antibody units (SI: units)

Performed at Mayo Medical Labs, Rochester MN

Effective 24Nov03 - Present:

Negative: <1.0

Effective 06Sep00 - 23Nov03:

Negative <1.0 Positive: >=1.0

Effective 19Sep94 - 05Sep00: (Method not specific for M2)

None detected <1:20 *titer*

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 - 18Sep94: None detected <1:20 titer

Effective 20May91 - 14Aug00:

Intermediate 1:20 - 1:80 titer Elevated >=1:160 titer

Effective 03Jan89 - 19May91: Negative at 1:40 titer

Effective 01Oct87 - 03Jan89: 0 titer



Test Name: Mitotane

Department: Laboratory Medicine Mayo Medical Labs

Synonyms: Lysodren

Reference Ranges:

Mitotane $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL) Performed at Medtox Labs, St. Paul MN Effective 08Mar00 – present:

Therapeutic and Toxic ranges have not been established. Usual therapeutic doses produce Mitotane serum concentrations of less than $100 \, \mu g/mL$.

Performed at National Medical Services, Willow Grove PA Effective 01Dec93 – 07Mar00: Following daily doses of 5-15 gms 7.0 – 90.0



Test Name: Mononucleosis Test **Department:** Laboratory Medicine

Lab Area: Immunology

Synonyms: Mono, Epstein Barr Virus

Reference Ranges:

Mononucleosis Test

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 - present: Negative



Test Name: Mucopolysaccharides, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: GAGS, MPS

Reference Ranges:

24 hour collection now obsolete. Order as random only. GAG1.

Mucopolysaccharides, Urine mg/mmol creat (SI: g/mol creat)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 17Jan05:

0M-2M 0.0 - 39.9 3M-4M 0.0 - 24.95M-6M 0.0 - 19.97M-11M 0.0 - 17.4 12M-23M 0.0 - 12.3 2Y-3Y 0.0 - 11.04Y-5Y 0.0 - 9.50.0 - 7.96Y-7Y 8Y-9Y 0.0 - 6.610Y-11Y 0.0 - 5.3 12Y-13Y 0.0 - 4.0 >=14Y0.0 - 3.3

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Sep93 - 18Sep94:

14y and up 0 - 13 μg glucuronic acid/mg creat. (SI: not available)

<14y age dependent; each reference range is indicated on report.



Test Name: Multiple Endo Neoplasia 2A Molicular Analysis

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: MEN 2A

Reference Ranges:

Multiple Endo Neoplasia 2A Molicular Analysis Performed at Mayo Medical Labs, Rochester MN Effective 10Sep03 – present



Test Name: Mumps Virus Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Mumps Virus Antibody

Performed at Mayo Medical Labs, Rochester MN Effective 16Jan02 – present:

IgG Negative IgM Negative

The presence of IgM class antibodies indicates recent infection.

The presence of demonstrable IgG in the absence of IgM generally indicates past exposure and immunity.

Effective 19Sep94 – 15Jan02:

IgG <1:5 titer IgM <1:10 titer

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: no ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: no ranges available



Test Name: Mycobacterial Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: AFB Culture, MAC,TB

Reference Ranges:

Mycobacterial Culture - Autopsy

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: AFB culture: No growth of acid-fast bacilli in 6 weeks



Test Name: Mycobacterial Culture **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture - Blood

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: AFC culture: No growth of acid-fast bacilli in 6 weeks



Test Name: Mycobacterial Culture **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture - Bone Marrow

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: AFB Culture: No growth of acid-fast bacilli in 6 weeks



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Catheter Exit Site

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB stain: No acid-fast bacilli seen

AFB culture: No growth of acid fast bacilli in 6 weeks.



Test Name: Mycobacterial Culture/ Acid-fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Abscess

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB stain: No acid fast bacilli seen

AFB culture: No growth of acid-fast bacilli in 6 weeks



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB.MAC,TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Biopsy

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB stain: No acid fast bacilli seen.

AFC culture: No growth of acid-fast bacilli in 6 weeks



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Bronchial Brush

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB Stain: No acid fast bacilli seen

Culture: No growth of acid -fast bacilli in 6 weeks.



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Bronchial Wash

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB Stain: No acid fast bacilli seen.

AFB Culture: No growth of acid -fast bacilli in 6 weeks.



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - CSF (Spinal Fluid)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB stain: No acid fast bacilli seen

AFB culture: No growth of acid-fast bacilli in 6 weeks



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Drainage

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB Stain: No acid fast bacilli seen

AFB Culture: No growth of acid fast bacilli in 6 weeks



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: AFB **Reference Ranges:**

Mycobacterial Culture/ Acid-Fast Stain - Gastric Aspirate

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB stain: No acid-fast bacilli seen

AFB culture: No growth of acid-fast bacilli in 6 weeks.



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Joint Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB stain: No acid-fast bacilli seen

AFB culture: No growth of acid fast bacilli in 6 weeks



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Pericardial Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB stain: No acid-fast bacilli seen

AFB culture: No growth of acid fast bacilli



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Peritoneal Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB stain: No acid-fast bacilli seen

AFB culture: No growth of acid -fast bacilli in 6 weeks



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Pleural Fluid

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB stain: No acid-fast bacilli seen

AFB culture: No growth of acid fast bacilli



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Sinus

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB stain: No acid-fast bacilli seen

AFB culture: No growth of acid fast bacilli in 6 weeks



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Sputum

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB Stain: No acid fast bacilli seen.

AFB Culture: No growth of acid-fast bacilli in 6 weeks



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Tracheal Aspirate and Transtracheal

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB Stain: No acid fast bacilli seen.

AFB Culture: No growth of acid -fast bacilli in 6 weeks.



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB Stain: No acid fast bacilli seen

AFB Culture: No growth of acid-fast bacilli in 6 weeks



Test Name: Mycobacterial Culture/ Acid-Fast Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** AFB, MAC, TB

Reference Ranges:

Mycobacterial Culture/ Acid-Fast Stain - Wound

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB Stain: No acid fast bacilli seen.

AFB Culture: No growth of acid -fast bacilli in 6 weeks.



Test Name: Mycobacterial Culture/ AFB Smear

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: AFB **Reference Ranges:**

Mycobacterial Culture/ Acid-Fast Stain - Bronchial Lavage

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

AFB Smear: No acid fast bacilli seen

AFB Culture: No growth of acid -fast bacilli in 6 weeks.



Test Name: Mycophenolic Acid, Serum
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: MPA, Mofetil

Reference Ranges:

Mycophenolic Acid, Serum $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 13Feb02 - present:

Therapeutic Ranges:

Mycophenolic Acid (MPA) 1.0 - 3.5

Mycophenolic Glucuronide (MPA-G) 35 – 100

<u>Interpretation:</u>

Trough serum levels of MPA at steady-state (after 2 weeks or more at the same dose) in the range of 1.0-3.5 μ g/mL indicate adequate therapy. MPA-G levels in the range of 35-100 μ g/mL indicate that the patient has normal phase II metabolic capacity.

Low MPA levels and high MPA-G levels suggest that the patient has an active phase II metabolic capability; higher doses may be required to maintain therapeutic levels of MPA. Because MPA-G is inactive, these levels indicate only the patient's metabolic status.

Trough serum MPA levels exceeding $4.0 \,\mu\text{g/mL}$ indicate that the patient may be overimmunosuppressed and susceptible to systemic infections. Decreased dosages may be indicated in these cases.

MPA-G levels are usually in the range of $100-250 \,\mu\text{g/mL}$ during the 2 weeks following transplantation. MPA-G levels are usually lower after this initial post-transplant phase. The drug is being evaluated for liver transplantation.

At steady-state (5 days after therapy is initiated) with a typical dosage of one gram twice daily of mycophenolate mofetil, the trough serum level of mycophenolic acid ranges from 1.0-3.5 μ g/mL. The MPA-G value ranges from 35-100 μ g/mL.

Patients who have low phase II hepatic conjugating capability may be overimmunosuppressed, indicated by a trough serum MPA level exceeding 4.0 µg/mL and a MPA-G level <40 µg/mL.

Some patients have a high phase II metabolic capacity. These patients may require one gram three times a day to maintain trough serum MPA levels in the range of 1.0-3.5 μ g/mL. They are likely to have MPA-G levels ranging from 80-150 μ g/mL.



Test Name: Mycoplasma Culture **Department:** Laboratory Medicine

Lab Area:

Synonyms: Mycoplasma T Culture

Reference Ranges:

No longer performed

Mycoplasma Culture and Mycoplasma T Culture Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Mycoplasma Pneumoniae Antibody IgG, IgM

Department: Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Mycoplasma Pneumoniae Antibody IgG, IgM titer

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present:

IgG <1:10

IgM <1:10

The presence of IgM antibodies or a fourfold or greater rise in paired sera IgG titer indicates recent infection. The presence of demonstrable IgG generally indicates past exposure.



Test Name: Mycoplasma pneumoniae PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Mycoplasma pneumoniae PCR

Performed at National Institutes of Health, Bethesda MD Effective 01Feb00 – present: Negative for Mycoplasma pneumoniae by PCR



Test Name: Mycoplasma pneumoniae PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Mycoplasma pneumoniae PCR

Performed at National Institutes of Health, Bethesda MD Effective 01Feb00 – present: Negative for Mycoplasma pneumoniae by PCR



Test Name: Myelin Basic Protein, CSF **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: MBP **Reference Ranges:**

Myelin Basic Protein, CSF ng/mL (SI: $\mu g/L=1.0 \text{ x ng/mL}$)

Performed at Mayo Medical Labs, Rochester MN

Effective 17Mar98 - present: 0 - 1.4Effective 19Sep94 - 16Mar98: ≤ 4.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jan88 - 18Sep94:

Negative <4 Weakly Positive 4 - 8 Positive >8



Test Name: Myoglobin Screen, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Myoglobin Screen, Urine

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Negative



Test Name: Myoglobin, Quantitative, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Myoglobin, Quantitative, Urine ng/mL (SI: $\mu g/mL = 0.001 \times ng/mL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Jul01 - present: 0 - 24

Performed at SmithKline Beecham, Van Nuys CA

Effective 19Sep94 - 18Jul01: 0 - 2000

An elevated level of myoglobin in urine does not identify the clinical disorder.



Test Name: Myoglobin, Serum Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Myoglobin, Serum ng/mL (SI: $\mu g/L = 1.0 \text{ x ng/mL}$) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: 0.0 - 90.0

Performed at SmithKline Beecham, Van Nuys CA Effective 01Oct91 - 18Sep94: <55



Test Name: N-Acetyl-B-D-Glucosamidase, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: NAG **Reference Ranges:**

N-Acetyl-B-D-Glucosamidase, Urine *U/L* (SI: U/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 28Jan05 – present:

Male 1.1 - 5.9 Female 0.0 - 5.4

Results are for research purposes only.

Effective 19Sep94 - 27Jan05: 0 - 5.9 Results are for research purposes only.

Performed at SmithKline Beecham, Van Nuys CA Effective 09Oct90 – 18Sep94: 0 – 5.9 Results are for research purposes only.



Test Name: N-Methyl histamine, U **Department:** Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

N-Methylhistamine, Urine $\mu g/g$ creat (SI: $\mu g/g$ creat)

Performed at Mayo Medical Labs, Rochester MN

Effective 17Jul02 – present:

0Y - 5Y: 120 - 510 6Y - 16Y: 70 - 330 >16y: 30 - 200

Performed at Vanderbilt University, Nashville TN

Effective 20Jan99 - 16Jul02: 50 - 230

(Creatinine: 1-2 g/L)



Test Name: N-MIAA, U

Department: Laboratory Medicine

Lab Area:

Synonyms: N-Methylindolacetic Acid

Reference Ranges:

N-MIAA, Urine mg/24hr (SI: $mg/d = 1.0 \times mg/24hr$)

No longer performed as of 19Jan99. Was replace by N-Methylhistamine, Urine.

Performed at Mayo Medical Labs, Rochester MN

Effective 28May97 – 19Jan99: 0 – 4.9



Test Name: Neuraminidase, Fibroblasts

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Neuraminidase, Fibroblasts

Performed at Mayo Medical Labs, Rochester MN Effective 09Oct96 – present: Normal control noted on report



Test Name: Nose Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Nose Culture - Nose (Anterior Nares)

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Staphylococcus aureus

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: NTx-Telopeptide, Urine
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

NTx-Telopeptide, Urine

Performed at Mayo Medical Labs, Rochester MN

Effective 19Jul00 – present:

Males 20-40Y: 21-66 nmol Bone Collagen Equivalents/mmol Creatinine Females 20Y-40Y: 19-63 nmol Bone Collagen Equivalents/mmol Creatinine

Reference values were determined in subjects 20-40 years old.

Higher values may be found in older patients, but results are generally

interpreted relative to the younger age groups.

Also reported: Creatinine in mg/dL and NTX in pmol/mL

Effective 25Jun97 – 18Jul00:

Male $0-64 \, pm/\mu m \, creat$

Female Premenopausal $0-64 \, pm/\mu m \, creat$

Female Postmenopausal $0 - 130 \, pm/\mu m \, creat$



Test Name: Occult Blood

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Occult Blood

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Negative



Test Name: Oligosaccharide Screen, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Oligosaccharide Screen, Urine

Performed at Mayo Medical Labs, Rochester MN Effective 211Feb05– present:

Reported as negative or positive with an interpretive report included.



Test Name: Onchocerca volvulus PCR **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Onchocerca volvulus PCR

Performed at National Institutes of Health, Bethesda MD Effective 15Sep99 – present Negative for Onchocera volvulus by PCR.



Test Name: Organic Acid Screen, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Organic Acid Screen, Urine

Performed at Mayo Medical Labs, Rochester MN

Effective 18Jul00 – present:

A narrative report will be issued. In normal subjects, the excretion of most pathologic organic acids is typically below the detectability of the method (approx. 2 mmol/mol creatinine).

Effective 02Oct96 – 17Jul00: μg/mg creat

3-OH Butyric Acid: 0-40

Lactic Acid

 $1D-6M \quad 0-200$

7M-11M 0-100

12M-15Y 0-50

16Y-150Y 0 - 37

Pyruvic Acid

 $1D-11M \quad 0-80$

12M-15Y 0-25

16Y-150Y0-10

Fumaric Acid: 0 - 15

2-Ketoglutaric Acid

1D-15Y 0-196

16Y-150Y0-96

Ethylmalonic Acid

1D-15Y 0-20

16Y-150Y 0-10

Glutaric Acid: 0-6

Adipic Acid

1D-15Y 0-30

16Y-150Y 0-45

Octenedioic Acid: 0 - 15

Suberic Acid 1D-15Y 0 – 12 16Y-150Y 0 – 4

Sebacic Acid: 0-3

3-0H Sebacic Acid: 0-12

3-0H Dodecanedioic Acid: 0-4



Test Name: Organic Acids, Plasma **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Organic Acids, Plasma

Performed at Mayo Medical Labs, Rochester MN Effective 09Oct96 – 30Aug99: Normals noted on report.



Test Name: Organic Acids, QN, CSF Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Organic Acids, QN, CSF

Performed at Children's Hospital, Philadelphia PA Effective 09Oct96 – present: Reference ranges are sent with the report.



Test Name: Osmolality, CSF **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Osmolality, CSF *mOsm/kg* (SI: mmol/kg = 1 x mOsm/kg)

Effective 01Jan79 - present: 280 - 295



Test Name: Osmolality, Feces **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Osmolality, Feces mosmol/kg (SI: mmol/kg = 1.0 x mOsm/kg)

Performed at Mayo Medical Labs, Rochester MN

Effective 15Mar95 - present: 220-280



Test Name: Osmolality, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Osmolality, Fluid *mOsm/kg* (SI: mmol/kg = 1.0 x mOsm/kg)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Not established



Test Name: Osmolality, Serum **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Osmolality, Serum *mOsm/kg* (SI: mmol/kg = 1 x mOsm/kg) Performed at National Institutes of Health, Bethesda MD

Effective 30Nov87 - present: 278 - 298

Effective 01Jan79 – 29Nov87:

Male 285 - 295Female 280 - 290



Test Name: Osmolality, Sweat **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Osmolality, Sweat mOsm/kg (SI: mmol/kg = 1.0 x mOsm/kg)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Not established



Test Name: Osmolality, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Osmolality, Urine mOsm/kg (SI: mmol/kg = 1.0 x mOsm/kg)

Performed at National Institutes of Health, Bethesda MD

Effective 02Aug86 - present : Average fluid intake: 300 – 900 12 hr fluid restriction: 850 – 1200

Effective 01Jan79 - 01Aug86: 300 - 1000



Test Name: Osmotic Fragility, RBC
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Erythrocyte Osmotic Fragility

Reference Ranges:

Osmotic Fragility, RBC % hemol (SI: hemol frac = 0.01 x % hemol)

Performed at Mayo Medical Labs, Rochester MN

Effective 01Jul03 – present: 0.50 g/dL NaCl (unincubated)

Male 0.0 - 47.8Female 0.0 - 31.1

0.60 g/dL NaCl (unincubated)

Male 18.7 – 67.4 Female 10.9 – 65.5

0.65 g/dL NaCl (incubated)

Male 4.4 - 36.6Female 0.2 - 39.3

0.75 g/dL NaCl (incubated)

Male 0.8 - 9.1Female 0.0 - 10.9

Interpretation:

Increased lysis in more than two concentrations of NaCl indicates increased red cell fragility. Infrequently, other hemolytic disorders may be associated with positive results, as in patients with congential nonspherocytic hemolytic anemia due to G-6-PD or pyruvate kinase deficiency. Patients with an immunohemolytic anemia, or who have recently received a blood transfusion may also have increased RBC lysis.

Performed at Mayo Medical Labs, Rochester MN Effective 11Apr01 – present: 0.50 g/dL NaCl (unincubated) Male 0.5 – 24.7 Female 0 – 23.1

0.60 g/dL NaCl (unincubated)

Male 18 - 55.2Female 2.2 - 59.3 0.65 g/dL NaCl (incubated)Male 4-24.8Female 0.5-28.9

0.75 g/dL NaCl (incubated)Male 0.5 - 8.5Female 0.1 - 9.3

Interpretation:

Increased lysis in more than two concentrations of NaCl indicates increased red cell fragility. Infrequently, other hemolytic disorders may be associated with positive results, as in patients with congential nonspherocytic hemolytic anemia due to G-6-PD or pyruvate kinase deficiency. Patients with an immunohemolytic anemia, or who have recently received a blood transfusion may also have increased RBC lysis.

Performed at National Institutes of Health, Bethesda MD Effective until 11Apr01: No ranges available



Test Name: Osteocalcin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Osteocalcin ng/mL (SI: $\mu g/L = 1 \times ng/mL$)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jul01 – present:

Female Adult Premenopausal 0.5 - 7.0

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 21Jun00 – 10Jul01:

Male $\ge 19Y$ 8.0 - 52.0

Female Adult:

Premenopausal 5.8-41.0

Postmenopausal 8.0 - 56.0

Pediatric:

2M-12M 27.0-149.0

1Y-4Y 23.0 - 105.0

5Y-9Y 24.0 – 123.0

Tanner Stage I 20.0 - 89.0

Tanner Stage II

Male 26.0 – 90.0

Female 44.0 - 144.0

Tanner Stages III-IV

Male 48.0 - 123.0 Female 31.0 - 91.0

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 20Jun00:

0Y-1Y Not established

2Y-10Y 10.0 – 43.0

11Y-19Y Not established

 $20Y-50Y \quad 2.0-15.0$

Male 51Y-70Y 2.0-10.0Female 51Y-80Y 6.0-22.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 07Jul93 - 18Sep94: 5.1 - 23.0



Test Name: Ova + Parasites **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Ova + Parasites

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No parasites seen



Test Name: Ova+Parasites **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Ova+Parasites - Duodenal Fluid/Asp

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No parasites seen



Test Name: Oxalate, Urine **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Oxalate, Urine mg/24hr (SI: $\mu mol/d = 11.4 \text{ x mg}/24hr$) Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 9.7 - 40.5

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep93 – 18Sep94: 0 – 40

Effective 13May91 – 31Aug93:

Male <67 Female <45

Effective 01Jan79 – 12May91: <40



Test Name: Oxcarbazepine Metabolite (MHC)

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Trileptal

Reference Ranges:

Oxcarbazepine Metabolite (MHC) $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 14Jan04 – present:

Trough Value 6-10 Peak Value <40

Oxcarbazepine $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL)

Performed at Medtox Laboratories, St. Paul MN

Effective 12Jul01 - 13Jan04:

Therapeutic 10.0-35.0

Therapeutic efficacy has been demonstrated in patients with trough 10-Hydroxy metabolite concentrations of 10.0-35.0 µg/mL.

Toxic concentrations have not been established.



Test Name: Pancreatic Polypeptide Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Pancreatic Polypeptide pg/mL (SI: ng/L = 1 x pg/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 10Jun98 – present: 0Y-19Y: not established

20Y-29Y: 0 – 227 30Y-39Y: 0 – 248 40Y-49Y: 0 – 269 50Y-59Y: 0 – 290 60Y-69Y: 0 – 311 70Y-79Y: 0 – 331

>=80Y: not established



Test Name: Paracoccidiodes CSF **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Paracoccidiodes CSF
Paracoccidiodes Agar CSF
Performed at American Medical Labs, Chantilly VA
Effective until 31Nov 92



Test Name: Paracoccidioides Antibody, Serum

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed **Paracoccidioides Antibody, Serum**Performed at American Medical Labs, Chantilly VA

Effective until 05Oct82: No ranges available



Test Name: Parainfluenza Antibody Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Parainfluenza Antibody titer (SI: titer)
Performed at Focus Technologies, Cypress CA

Effective 06Mar99 - present: 0 - 7

Effective 19Sep94 - 06Mar99: No ranges available



Test Name: Paraneoplastic Autoantibody Evaluation

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: ANNA-1, ANNA-2, ANNA-3, PCA-1, PCA-2,

PCA-Tr

Reference Ranges:

Paraneoplastic Autoantibody Evaluation

Performed at Mayo Medical Labs, Rochester MN

Effective 14Jan04 – present:

Anti-Neuronal Nuclear Ab, Type 1 (ANNA-1) Negative at <1:60

Anti-Neuronal Nuclear Ab, Type 2 (ANNA-2) Negative at <1:60

Anti-Neuronal Nuclear Ab, Type 3 (ANNA-3) Negative at <1:60

Purkinje Cell Cytoplasmic Ab Type 1 (PCA-1) Negative at <1:60

Purkinje Cell Cytoplasmic Ab Type 2 (PCA-2) Negative at <1:60

Purkinje Cell Cytoplasmic Ab Type Tr (PCA-Tr) Negative at <1:60

Amphiphysin Ab Negative at <1:60

CRMP-5-IgG Negative at <1:60

Titers lower than 1:60 are detectable by recombinant CRMP-5 western blot analysis. CRMP-5 western blot analysis will be done on request on stored serum (held 4 weeks).

Striational (Striated Muscle) Ab <1:60 Calcium Channel Bind Ab, P/Q Type <20 pmol/L Calcium Channel Bind Ab, N-Type <20 pmol/L ACh Receptor (Muscle) Binding Ab 0 - 0.02 nmol/L



Test Name: Parasitic Serology **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed as a battery. Order individual tests.

Parasitic Serology

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective 02Mar86 – 31Aug90: No ranges available

Performed at Center for Disease Control, Atlanta GA Effective until 01Mar86: No ranges available



Test Name: Parathyroid Hormone, C-Terminal,

Mid-Molecule

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: PTH-C

Reference Ranges:

Parathyroid Hormone, C-Terminal, Mid-Molecule pg/mL (SI: $ng/L = 1.0 \times pg/mL$)

To convert to pmol/L multiply the result by 0.353

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 18May00 – present:

 $\begin{array}{ccc} 17Y\text{-}150Y & 70-270 \\ 2Y\text{-}16Y & 54-230 \end{array}$

Method not sensitive below 50 pg/mL.

Effective 17Apr00 – 17May00: 50 - 330

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Jan90 – 16Apr00: 50 - 340

Effective 01Oct87 - 13Jan90: 0 - 340 pg/mL

Calcium:

>17Y: 8.8-10.1 mg/dL 7Y-17Y: 8.7-10.8 mg/dL



Test Name: Parathyroid Hormone, Intact

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: PTH

Reference Ranges:

Parathyroid Hormone, Intact pg/mL (SI: ng/L = 1.0 x pg/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 23Feb05 – present:

Winter 12 - 52 Summer 7 - 32

Effective 13Nov02 – 22Feb05: 6 – 40

Effective 15Sep99 – 12Nov02: 10 – 65

Performed at Mayo Medical Labs, Rochester MN

Effective 05Dec94 – 14Sep99: 9.4 – 49 Effective 19Sep94 – 04Dec94: 9.4 – 47

Performed at SmithKline Beecham, Van Nuys CA

Effective 06Feb91 - 18Sep94: 10 - 65



Test Name: Parathyroid Hormone, N-Terminal

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: PTH-N

Reference Ranges:

TEST OBSOLETE. DO NOT ORDER. March 21, 2005

Parathyroid Hormone, N-Terminal pg/mL (SI: ng/L = 1 x pg/mL)

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 17Apr00 - 21Mar05: 8 - 24

(Calcium: 8.8-10.1 mg/dL)

Performed at SmithKline Beecham, Van Nuys CA

Effective 22Jul88 – 16Apr00: 4 - 19

(Calcium: 8.8-10.1 mg/dL)

Test Name: Parietal Cell Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Anti-parietal Cell, Gastric Parietal Cell Ab, IgG

Reference Ranges:

Gastric Parietal Cell Antibody, IgG, Serum Units

Performed at Mayo Medical Labs, Rochester MN

Effective 24Mar05 – present:

< or = 20.0 Negative
20.1 - 24.9 Negative
> or = 25.0 Negative

Parietal Cell Antibody titer (SI: titer)

Performed at Mayo Medical Labs, Rochester MN

Effective 24Nov03 - Present:

Negative: <1.0

Effective 19Sep94 – 23Nov03:

Negative: <1:20 Weakly Pos: 1:20 – 1:40 Positive: >=1:80

Performed at SmithKline Beecham, Van Nuys CA

Effective 10Oct91 – 18Sep94:

Negative: <1:20 Weakly Pos: 1:20 – 1:40 Positive: >=1:80

Effective 31Jul90 – 09Oct91: Negative <1:10

Effective 01Oct87 – 30Jul90: Negative <1:20

Effective 01Oct87 – 03Jan89: Weakly Pos: 1:20 – 1:40

Positive: >=1:80



Test Name: Partial Thromboplastin Time

Department: Laboratory Medicine

Lab Area: Hematology **Synonyms:** APTT, PTT

Reference Ranges:

Partial Thromboplastin Time *seconds*

Performed at National Institutes of Health, Bethesda MD

Effective 20Jan99 – present: Automated: 23.4 – 34.5 Fibrometer: 24.4 - 35.6

Effective 08Aug95 – 19Jan99: Automated 23.7 – 35.0 Effective 08Sep83 - 07Aug95: Automated 22.5 - 34.8.6 Effective 01Jan79 - 19Jan99: Fibrometer 25.8 - 38.6



Test Name: Parvovirus B19 Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Parvovirus B19 Antibody titer (SI: titer)

Performed at Focus Technologies, Cypress CA

Effective 14Mar01 – present:

IgG: <1:64 IgM: <1:10 Interpretation:

Parvovirus infection is associated with several distinct clinical manifestations, including erythema infectiosum (fifth disease), aplastic crisis, hydrops fetalis, fetal anemia stillbirth, and probably some forms of arthritis. The presence of IgG antibody alone indicates past infection and probably immunity to parvovirus. The presence of IgM antibody, either in the presence or absence of IgG antibody, indicates recent parvovirus infection (within the preceding 3 months).

Performed at Mayo Medical Labs, Rochester MN

Effective 14Sep94 – 13Mar01:

IgG: Negative IgM: Negative



Test Name: Pentobarbital **Department:** Laboratory Medicine **Lab Area:** Quest Diagnostics

Synonyms:

Reference Ranges:

Pentobarbital μ *g/mL* (SI: mg/L = 1 x μ g/mL) Performed at Quest Diagnostics, Baltimore MD Effective 13Nov02 – present: Expected values: 1.0 - 5.0

Detection limit: 0.1

Performed at American Medical Labs, Chantilly VA

Effective 01Aug01 - 12Nov02: Expected values: 1.0 - 5.0 Detection limit: 0.1

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Test Name: Pericardial Fluid Cell Count and Diff

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Pericardial Fluid Cell Count and Differential

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Cell Count:

WBC: 0-499/mm³ RBC: 0-99/mm³ Differential:

Neutrophils (including bands): 0-24 % Lymphocytes: Lymphocytes predominate

Other cells: Macrophages and Mesothelial cells predominate



Test Name: Peritoneal Fluid Cell Count and Diff

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Peritoneal Fluid Cell Count and Differential

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Cell Count:

WBC: 0-499/mm³ RBC: 0-99/mm³ Differential:

Neutrophils (including bands): 0-24 % Lymphocytes: Lymphocytes predominate

Other cells: Macrophages and Mesothelial cells predominate

Test Name: Peroxisomal Panel Laboratory Medicine Lab Area: Mayo Medical Labs Synonyms: Essential Fatty Acids

Reference Ranges:

Peroxisomal Panel \(\mu mol/L\) (SI: \(\mu mol/L\)

Performed at Mayo Medical Labs, Rochester MN

Effective 28Oct96 – present:

C22:0 0 - 96.3

 $C24:0 \quad 0-91.4$

 $C26:0 \quad 0-1.30$

C24:0/C22:0 0 - 1.39 ratio

C26:0/C22:0 0 - 0.023 ratio

Pristanic Acid

 $0M-4M \quad 0-0.60$

5M-8M 0-0.84

 $9M-12M \quad 0-0.77$

13M-24M 0-1.47

>24M 0 – 2.98

Phytanic Acid

 $0M-4M \quad 0-5.28$

5M-8M 0 - 5.70

 $9M-12M \quad 0-4.40$

 $13M-24M \quad 0-8.62$

>24M 0 – 9.88

Pristanic/Phytanic Ratio

 $0M-4M \quad 0-0.35$

5M-8M 0-0.28

 $9M-12M \quad 0-0.23$

 $13M-24M \quad 0-0.24$

>24M 0 – 0.39

Effective 09Oct96 – 24Jun97:

Phytanic Acid

Negative 0.0 - 0.09 Indeterminate 0.1 - 0.30 Suggests Refsum's Disease >0.30



Test Name: Phenobarbital, CSF **Department:** Laboratory Medicine

Lab Area: Chemistry **Synonyms:** Barbiturates

Reference Ranges:

Phenobarbital mg/L (SI: μ mol/L = 4.31 x mg/L) (mg/L = μ g/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 02Apr92 - present:

Therapeutic 15-40

Toxic:

Slowness, ataxia, nystagmus 35-80Coma with reflexes 65-117Coma without reflexes >100

Effective 07Feb81 - 01Apr92: Therapeutic: 15 - 40

Performed at MetPath Labs, Rockville MD Effective until 06Feb81: No ranges available



Test Name: Phenobarbital, Fluid Laboratory Medicine

Lab Area: Chemistry **Synonyms:** Barbiturates

Reference Ranges:

Phenobarbital, Fluid mg/L (SI: μ mol/L = 4.31 x mg/L) (mg/L = μ g/mL) Performed at National Institutes of Health, Bethesda MD Effective 07Feb81 - present

Performed at MetPath Labs, Rockville MD Effective until 06Feb81



Test Name: Phenytoin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Dilantin, Diphenylhydantoin

Reference Ranges:

Phenytoin mg/L (SI: $\mu mol/L = 3.96 \text{ x mg/L}$)

Performed at National Institutes of Health, Bethesda MD

Effective 02Apr92 - present:

The rapeutic 10-20

Toxic:

Far lateral nystagmus >20 Nystagmus at 45 angle >30 Depressed mental capacity >40

Effective until 07Dec79 - 01Apr92:

Therapeutic 10-20Toxic >29

Performed at MetPath Labs, Rockville MD Effective until 06Dec79: No ranges available



Test Name: Phenytoin, Free Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Phenytoin, Free mg/L (SI: μ mol/L = 3.96 x mg/L) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - present: Therapeutic 1.0 – 2.0 Toxic >=2.5

Performed at SmithKline Beecham, Van Nuys CA Effective 18Mar88 - 18Sep94: Therapeutic 1.0 – 2.0

Toxic not listed

Performed at MetPath Labs, Rockville MD Effective until 18Sep94: Therapeutic 1.0 – 2.0 Toxic not listed



Test Name: Phosphorus, Inorganic **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Phosphorus, Inorganic, CSF mg/dL (SI: mmol/L = 0.323 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 14Nov85 - present: 1.2 - 2.0 Effective 28May81 - 13Nov85: 1.4 - 2.4 Effective 01Jan79 - 27May81: 1.3 - 2.1



Test Name: Phosphorus, Inorganic, Urine

Department: Laboratory Medicine

Lab Area: Chemistry **Synonyms:** Phosphate

Reference Ranges:

Phosphorus, Urine g/24hr (SI: mmol/d = 32.3 x g/24hr) Performed at National Institutes of Health, Bethesda MD

Effective 01Jun82 - present: 0.4 - 1.3

Random: Not established



Test Name: Phosphorus, Serum **Department:** Laboratory Medicine

Lab Area: Chemistry **Synonyms:** Phosphate

Reference Ranges:

Phosphorus, Serum mg/dL (SI: mmol/L = 0.323 x mg/dL) Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present:

>=18Y 2.5 – 4.8

Effective 01Dec88 – 10Jun03:

>=18Y 2.3 – 4.3

Effective 28May81 - 30Nov88:

>=18Y 2.4 - 4.4

Effective 01Jan79 - 27May81:

>=19Y 2.1 - 3.8



Test Name: pH, CSF

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

pH, CSF

Performed at National Institutes of Health, Bethesda MD

Effective 12Apr89 - present: 7.35 - 7.4

Effective 14Jan85 - 11Apr89:

Lumbar 7.28 - 7.4 Cisternal 7.32 - 7.34

Effective 01Jan79 - 13Nov85: 7.35 - 7.7



Test Name: pH, Fluid

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

pH, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present



Test Name: pH, Urine

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

pH, Urine

Performed at National Institutes of Health, Bethesda MD

Effective 06Mar99 – present: 5.0 - 8.0 Effective 01Jan79 – 05Mar99: 4.8 - 7.8



Test Name: Pinworm Exam Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Scotch Tape Prep

Reference Ranges:

Pinworm Exam

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Enterobius



Test Name: Pinworm Exam Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Scotch Tape Prep

Reference Ranges:

Pinworm Exam

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Enterobius



Test Name: PKU, Urine

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed.

PKU, Urine mg/dL

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – 01Apr92: 2.0 - 4.0



Test Name: Placental Lactogen **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: HPL **Reference Ranges:**

Placental Lactogen mcg/mL (SI: mg/L = 1.0 x mcg/mL)

Performed at Cambridge Biomedical Clinical Reference Lab, Brighton MA

Effective 15Jul00 – present:

Males and non-Preg Females 0.00 - 0.101st trimester of preg 0.20 - 2.102nd trimester of preg 0.50 - 6.703rd trimester of preg 4.50 - 12.80

Effective 21Nov88 – 14Jul00:

Males and non-Preg Females 0 - 0.1

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 14Jul00:

Females Preg 25-41 wks 1.5 - 12.6

Performed at SmithKline Beecham, Van Nuys CA

Effective 21Nov88 – 18Sep94:

No ranges available

Females Preg 5-38 wks 0.5 - 11

Test Name: Plasma Hemoglobin **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: hgb, hb

Reference Ranges:

Plasma Hemoglobin mg/dL (SI: $\mu mol/L = 0.155 \text{ x mg/dL}$)

Performed at Mayo Medical Labs, Rochester MN

Effective 11Jun03 – present:

Reference values:

0-13D 39 mg/dL (mean)*

2-11W 22 mg/dL (mean)*

3-23M 16 mg/dL (mean)*

2-17Y 10 mg/dL (mean)*

>=18Y 0-15 mg/dL

Performed at National Institutes of Health, Bethesda MD

Effective 02Dec00 - 10Jun03: 0 - 17.5Effective 01Jan79 - 01Dec00: 0 - 5.0

^{*}Literature derived normals



Test Name: Plasminogen

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Plasminogen %

Performed at National Institutes of Health, Bethesda MD Effective 12Oct00 – present: 77.0 - 124.0

Call 104-2359-7 for interpretation.



Test Name: Plasminogen Activator Inhibitor-1 Antigen

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: PAI-1, PAIK

Reference Ranges:

Plasminogen Activator Inhibitor-1 Antigen ng/mL

Performed at Esoterix Coagulation, Aurora CO Effective 08Jan03 – present: 4.0 - 43.0 Reference ranges represent adult values.



Test Name: Platelet Function Analyzer **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Platelet Function Analyzer

Performed at National Institutes of Health, Bethesda MD Effective 12May04 – present:

EPI: 86-154 sec. ADP: 73-129 sec.

Interpretation: Call 104-2359-7 for interpretation



Test Name: Pleural Fluid Cell Count and Diff

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Pleural Fluid Cell Count and Differential

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Cell Count:

WBC: 0-499/mm³ RBC: 0-99/mm³ Differential:

Neutrophils (including bands): 0-24 % Lymphocytes: Lymphocytes predominate

Other cells: Macrophages and Mesothelial cells predominate



Test Name: Pneumococcal Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Streptococcus Pneumoniae; Pneumococcal

IgG Serotypes

Reference Ranges:

Test no longer performed. Order Pneumococcal Ab, 23 Serotypes, or Pneumococcal 7 Serotypes depending on vaccine given.

Pneumococcal Antibody $\mu g/mL$ (SI: mg/L = 1 x μ g/mL)

Performed at Focus Technologies, Cypress CA

Effective 04Apr03 – 08Mar05:

Post-vaccination: >1.6 Interpretive Criteria:

<= 1.6 Non-protective antibody level

> 1.6 Protective antibody level

Pneumococcal vaccine response testing should be performed with paired pre- and post-vaccination sera. The MAID procedure measures IgG antibodies recognizing 12 type-specific pneumococcal polysaccharide antigens included in the polyvalent vaccine. Based on the findings of Schmid et al (J infect Dis 143:590,1981), IgG levels >1.6 μ g/mL (equivalent to 250 ng Antibody N/mL) are considered protective. Individual pre-vaccination IgG levels are highly variable due to age and exposure history; in general, however, approximately 50% of individuals exhibit non-protective IgG levels (<= 1.6 μ g/mL) prior to vaccination. A two-fold or greater increase for at least one serotype is expected when comparing post-vaccination to pre-vaccination results.

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 01Jun99 – 03Apr03: Random: No ranges established

Pre (Unimmunized) 0 - 1.4

Post: 2Y - 7Y

Serotype 1 >= 3.0Serotype 3 >=3.0Serotype 4 >= 1.5>=1.5Serotype 6 Serotype 8 >= 3.0Serotype 9N >= 3.0Serotype 12 >=1.5Serotype 14 >= 3.0Serotype 19F >=1.5Serotype 23F >=1.5

>=1.5

Serotype 51 (7F)

Serotype 56	>= 3.0
Post: 8Y - 14Y	
Serotype 1	>= 3.0
Serotype 3	>= 4.5
Serotype 4	>= 1.5
Serotype 6	>= 3.0
Serotype 8	>= 4.5
Serotype 9N	>= 4.5
Serotype 12	>= 3.0
Serotype 14	>= 4.5
Serotype 19F	>= 1.5
Serotype 23F	>= 4.5
Serotype 51 (7F)	>= 1.5
0 1 50	> 20
Serotype 56	>= 3.0
Post: >= 15Y	>= 3.0
Post: >= 15Y	>= 3.0
Post: >= 15Y Serotype 1	
Post: >= 15Y Serotype 1 Serotype 3	>= 4.5
Post: >= 15Y Serotype 1 Serotype 3 Serotype 4	>= 4.5 >= 4.5
Post: >= 15Y Serotype 1 Serotype 3	>= 4.5 >= 4.5 >= 1.5
Post: >= 15Y Serotype 1 Serotype 3 Serotype 4 Serotype 6 Serotype 8	>= 4.5 >= 4.5 >= 1.5 >= 3.0
Post: >= 15Y Serotype 1 Serotype 3 Serotype 4 Serotype 6	>= 4.5 >= 4.5 >= 1.5 >= 3.0 >= 4.5
Post: >= 15Y Serotype 1 Serotype 3 Serotype 4 Serotype 6 Serotype 8 Serotype 9N Serotype 12	>= 4.5 >= 4.5 >= 1.5 >= 3.0 >= 4.5 >= 4.5
Post: >= 15Y Serotype 1 Serotype 3 Serotype 4 Serotype 6 Serotype 8 Serotype 9N	>= 4.5 >= 4.5 >= 1.5 >= 3.0 >= 4.5 >= 4.5 >= 3.0
Post: >= 15Y Serotype 1 Serotype 3 Serotype 4 Serotype 6 Serotype 8 Serotype 9N Serotype 12 Serotype 14	>= 4.5 >= 4.5 >= 1.5 >= 3.0 >= 4.5 >= 3.0 >= 4.5
Post: >= 15Y Serotype 1 Serotype 3 Serotype 4 Serotype 6 Serotype 8 Serotype 9N Serotype 12 Serotype 14 Serotype 19F	>= 4.5 >= 4.5 >= 1.5 >= 3.0 >= 4.5 >= 3.0 >= 4.5 >= 3.0

Performed at Specialty Labs, Santa Monica CA Effective 25May95 – 31May99: Protective Range for types 1,3,4,6B,7F,8,9N,12F,14,18C,19F,23F 200 – 300 ng AB

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 24May95:

Preimmune AB level <10 AU

Low-Mod AB level for type 14 10-25 AU Low-Mod AB level for types 3,8,12 10-50 AU

High AB level for type 14 >25 AU High AB level for types 3,8,12 >50 AU

Performed at Specialty Labs, Santa Monica CA

Effective 22Jul91 – 18Sep94:

Protective Range: 200 – 300 ng AB



Test Name: Pneumococcal Antibody, 23 Serotypes

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Streptococcus Pneumoniae

Reference Ranges:

Pneumococcal Antibody $\mu g/mL$ (SI: mg/L = 1 x μ g/mL)

Streptococcus pneumoniae IgG Antibodies, 23 Serotypes, Serum

Performed at Mayo Laboratories, Rochester MN

Effective 09Mar05 – present:

Reference Values:

Results are reported in ug/mL.

Serotype	Median	95% Confidence Interval
12F (12)	1.2	<4.3
14 (14)	6.7	<22.9
17F (17)	13.1	<44.8
19F (19)	3.7	<16.0
20 (20)	3.0	<12.1
22F (22)	10.5	<32.4
23F (23)	13.1	<49.0
6B (26)	4.1	<15.3
10A (34)	6.5	<25.5
11A (43)	1.7	<9.7
7F (51)	6.2	<30.8
15B (54)	2.0	<12.8
18C (56)	1.1	<7.0
19A (57)	2.6	<28.1
9V (68)	11.5	<44.0
33F (70)	1.6	<7.5
1(1)	2.0	<8.2
2(2)	1.5	<7.4
3 (3)	2.2	<6.9
4 (4)	1.1	<4.1
5 (5)	8.8	<28.8
8 (8)	4.1	<13.3
9N (9)	3.7	<16.6

Formerly done as 12 Serotypes (before March of 2005)

Performed at Focus Technologies, Cypress CA

Effective 04Apr03 – 08Mar05:

Post-vaccination: >1.6 Interpretive Criteria:

<= 1.6 Non-protective antibody level

> 1.6 Protective antibody level

Pneumococcal vaccine response testing should be performed with paired pre- and post-vaccination sera. The MAID procedure measures IgG antibodies recognizing 12 type-specific pneumococcal polysaccharide antigens included in the polyvalent vaccine. Based on the findings of Schmid et al (J infect Dis 143:590,1981), IgG levels >1.6 μ g/mL (equivalent to 250 ng Antibody N/mL) are considered protective. Individual pre-vaccination IgG levels are highly variable due to age and exposure history; in general, however, approximately 50% of individuals exhibit non-protective IgG levels (<= 1.6 μ g/mL) prior to vaccination. A two-fold or greater increase for at least one serotype is expected when comparing post-vaccination to pre-vaccination results.

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 01Jun99 – 03Apr03: Random: No ranges established Pre (Unimmunized) 0 - 1.4

Post: 2Y - 7Y

Serotype 1 >= 3.0Serotype 3 >=3.0Serotype 4 >=1.5Serotype 6 >=1.5Serotype 8 >= 3.0Serotype 9N >= 3.0Serotype 12 >= 1.5Serotype 14 >= 3.0Serotype 19F >=1.5Serotype 23F >=1.5Serotype 51 (7F) >=1.5Serotype 56 >= 3.0

Post: 8Y - 14Y

Serotype 1 >= 3.0>=4.5Serotype 3 Serotype 4 >=1.5>= 3.0Serotype 6 Serotype 8 >=4.5Serotype 9N >=4.5Serotype 12 >= 3.0Serotype 14 >=4.5Serotype 19F >=1.5Serotype 23F >=4.5Serotype 51 (7F) >=1.5Serotype 56 >= 3.0

Post: $\geq 15Y$

Serotype 1 \Rightarrow 4.5

Serotype 3 >=4.5Serotype 4 >= 1.5Serotype 6 >= 3.0Serotype 8 >=4.5Serotype 9N >=4.5Serotype 12 >= 3.0Serotype 14 >=4.5Serotype 19F >= 3.0Serotype 23F >=4.5Serotype 51 (7F) >= 1.5Serotype 56 >= 3.0

Performed at Specialty Labs, Santa Monica CA Effective 25May95 – 31May99: Protective Range for types 1,3,4,6B,7F,8,9N,12F,14,18C,19F,23F 200 – 300 ng AB

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 24May95:

Preimmune AB level <10 AU

Low-Mod AB level for type 14 10-25 AU Low-Mod AB level for types 3,8,12 10-50 AU

High AB level for type 14 >25 AU High AB level for types 3,8,12 >50 AU

Performed at Specialty Labs, Santa Monica CA

Effective 22Jul91 – 18Sep94:

Protective Range: 200 - 300 ng AB



Test Name: Pneumococcal Antibody, 7 Serotypes

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Streptococcus Pneumoniae

Reference Ranges:

Pneumococcal Antibody, 7 Serotypes $\mu g/mL$ (SI: mg/L = 1 x μ g/mL)

Streptococcus pneumoniae IgG Antibodies, 7 Serotypes, Serum

Performed at Mayo Laboratories, Rochester MN

Effective 09Mar05 – present:

Reference Values:

Results are reported in ug/mL.

Serotype Post-Immunization

95% Confidence Interval

4 (4)	>1.9
6B (26)	>11.2
9V (68)	>2.8
14 (14)	>5.2
18C (56)	>2.7
19F (19)	>1.7
23F (23)	>2.9

Formerly done as 12 Serotypes (before March of 2005)

Performed at Focus Technologies, Cypress CA

Effective 04Apr03 – 08Mar05:

Post-vaccination: >1.6 Interpretive Criteria:

<= 1.6 Non-protective antibody level

> 1.6 Protective antibody level

Pneumococcal vaccine response testing should be performed with paired pre- and post-vaccination sera. The MAID procedure measures IgG antibodies recognizing 12 type-specific pneumococcal polysaccharide antigens included in the polyvalent vaccine. Based on the findings of Schmid et al (J infect Dis 143:590,1981), IgG levels >1.6 μ g/mL (equivalent to 250 ng Antibody N/mL) are considered protective. Individual pre-vaccination IgG levels are highly variable due to age and exposure history; in general, however, approximately 50% of individuals exhibit non-protective IgG levels (<= 1.6 μ g/mL) prior to vaccination. A two-fold or greater increase for at least one serotype is expected when comparing post-vaccination to pre-vaccination results.

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 01Jun99 – 03Apr03: Random: No ranges established

Pre (Unimmunized)	0 - 1.4
Post: 2Y - 7Y	
Serotype 1	>= 3.0
Serotype 3	>= 3.0
Serotype 4	>= 1.5
Serotype 6	>= 1.5
Serotype 8	>= 3.0
Serotype 9N	>= 3.0
Serotype 12	>= 1.5
Serotype 14	>= 3.0
Serotype 19F	>= 1.5
Serotype 23F	>= 1.5
Serotype 51 (7F)	>= 1.5
Serotype 56	>= 3.0
J 1	
Post: 8Y - 14Y	
Serotype 1	>= 3.0
Serotype 3	>= 4.5
Serotype 4	>= 1.5
Serotype 6	>= 3.0
Serotype 8	>= 4.5
Serotype 9N	>= 4.5
Serotype 12	>= 3.0
Serotype 14	>= 4.5
Serotype 19F	>= 1.5
Serotype 23F	>= 4.5
Serotype 51 (7F)	>= 1.5
Serotype 56	>= 3.0
z i i j p i i i	
Post: >= 15Y	
Serotype 1	>= 4.5
Serotype 3	>= 4.5
Serotype 4	>= 1.5
Serotype 6	>= 3.0
Serotype 8	>= 4.5
Serotype 9N	>= 4.5
Serotype 12	>= 3.0
Serotype 12	>= 4.5
Serotype 19F	>= 3.0
Serotype 23F	>= 4.5
Serotype 51 (7F)	>= 1.5
Serotype 56	>= 3.0
belotype 30	/ - 5.0

Performed at Specialty Labs, Santa Monica CA Effective 25May95 – 31May99: Protective Range for types 1,3,4,6B,7F,8,9N,12F,14,18C,19F,23F

200 - 300 ng AB

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 24May95:

Preimmune AB level <10 AU

Low-Mod AB level for type 14 10-25 AU Low-Mod AB level for types 3,8,12 10-50 AU

High AB level for type 14 >25 AU High AB level for types 3,8,12 >50 AU

Performed at Specialty Labs, Santa Monica CA

Effective 22Jul91 – 18Sep94:

Protective Range: 200 - 300 ng AB



Test Name: Pneumocystis carinii PCR **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** PCP-PCR

Reference Ranges:

Pneumocystis carinii PCR

Performed at National Institutes of Health, Bethesda MD Effective 01Feb00 – present: Negative for Pneumocystis carinii by PCR



Test Name: Pneumocystis Stain **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: PCP **Reference Ranges:**

Pneumocystis Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Negative



Test Name: Pneumocystis Stain **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: PCP **Reference Ranges:**

Pneumocystis Stain

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No pneumocystis seen



Test Name: Pneumocystis Stain **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms: PCP **Reference Ranges:**

Pneumocystis Stain

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No pneumocystis seen.



Test Name: PNH Flow Analysis **Department:** Laboratory Medicine

Lab Area: Hematology **Synonyms:** GPI Neg

Reference Ranges:

PNH Flow Analysis %

Performed at National Institutes of Health, Bethesda MD

Effective 14Jul99 – present: GPI NEG RBC: 0 - < 1GPI NEG NEUT: 0 - < 1



Test Name: Poliovirus Antibody, Types 1, 2, 3

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Poliovirus Antibody, Types 1, 2, 3 *titer* (SI: titer) Performed at Focus Technologies, Cypress CA Effective 06Mar99 – present: 0 – 7 Interpretation:

< 1:8 Antibody not detected.

>= 1:8 Antibody detected.

Effective 19Sep94 - 06Mar99: No ranges available

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Porphobilinogen, Urine Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Porphobilinogen, Random mg/g creat

Performed at Mayo Medical Labs, Rochester MN

Effective 17Jul02 – present: 0.0-0.5

Porphobilinogen, 24 hour mg/24hr (SI: $\mu mol/d = 4.42 \text{ x mg/24hr}$)

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 13Oct99 – present: 0 - 2.7

Porphobilinogen, Random mg/g creat

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 13Oct99 – 16Jul02:

Males >= 19Y 0 - 1.1

Females $>= 19 \quad 0 - 1.5$

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – 12Oct99:

Qualitative result given: not detectable

Test Name: Porphyrins, Urine (includes Porphobilinogen)

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Porphyrins, Quantitative µg/24hr

Performed at Mayo Medical Labs, Rochester MN

Effective 19Apr01 – present:

Uroporphyrins, Octacarboxyl 3-25

Heptacarboxylporphyrins 0-7

Hexacarboxylporphyrins 0-6

Pentacarboxylporphyrins 0-7

Corporphyrins, Tetracarboxyl

Males 25 - 150

Females 8 - 110

Effective 13Oct99 – 18Apr01:

Uroporphyrins, Octacarboxyl

Males 0-46

Females 0-22

Heptacarboxylporphyrins

Males 0-13

Females 0-9

Hexacarboxylporphyrins

Males 0-5

Females 0-4

Pentacarboxylporphyrins

Males 0-4

Females 0-3

Corporphyrins, Tetracarboxyl

Males 0-96

Females 0-60

Porphobilinogen mg/24hr

Performed at Mayo Medical Labs, Rochester MN

Effective 19Apr01 - present: 0 - 0.5

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA Effective 13Oct99 – 18Apr01:

Normal 0-1.5

Marginal 1.6-2

Excess >=2.1

Porphyrins (Uro-, Proto-, Copro-) Qualitative Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – 12Oct99: Not detectable



Test Name: Potassium, CSF **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: Reference Ranges:

Potassium, CSF *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 – present: 2.5 - 3.2

Effective 12Apr89 - 31Jul90: $2.5 - 3.2 \, mEq/L$ (SI: mmol/L = 1 x mEq/L)

Effective 14Nov85 - 11Apr89: 2.6 - 3.0 *mEq/L*



Test Name: Potassium, Feces **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Fecal K

Reference Ranges:

Potassium, Feces, 24H mEq/24hrs (SI: mmol/d = 1.0 x mEq/24hrs)

Performed at Mayo Medical Labs, Rochester MN

Effective 06Nov96 - present: 0.0 - 29.9

Effective 15Mar95 – 05Nov96: $5.0 - 20.0 \, mEq/kg$

Potassium, Feces, Random mEq/kg (SI: mmol/kg = 1.0 x mEq/kg)

Performed at Mayo Medical Labs, Rochester MN

Effective 06Nov96 - present: 0.0 - 199.9

Effective 15Mar95 – 05Nov96: $5.0 - 20.0 \, mEq/kg$

Performed at American Medical Labs, Chantilly VA Effective 02Jan85 – 14Mar95: Ranges not available

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – 01Jan85: Ranges not available



Test Name: Potassium, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Potassium, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan80 – present

Test Name: Potassium, Serum **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: Reference Ranges:

Potassium, Serum *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 - present: 3.3 - 5.1

Effective 01Dec88 - 31Jul90: 3.3 - 5.1 mEq/L (mEq/L x 1 = mmol/L)

Effective 01Jan79 - 30Nov88: 3.3 - 4.6 mEq/L

Effective 01Aug90 - present: Sodium: 135-144 mmol/L Chloride: 99 – 107 mmol/L Total CO₂: 21 - 31 mmol/L



Test Name: Potassium, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Potassium, Urine *mmol/24hr* (SI: mmol/d = 1 x mmol/24hr) Performed at National Institutes of Health, Bethesda MD

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Effective 01Aug90 - present: 25 - 125

Effective 01Dec87 – 31Jul90: 25 – 125 *mEq/24hr* Effective 01Jun82 – 30Nov87: 25 – 120 *mEq/24hr*



Test Name: Potassium, Whole Blood **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: K **Reference Ranges:**

Potassium, Whole Blood *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jul01 - present: 3.3-5.1



Test Name: Prealbumin

Department: Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

Prealbumin mg/dL (SI: mg/L = 10 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present: 17 – 39 Effective 05Oct94 – 10Jun03: 16.0 – 34.0 Effective 04Aug93 – 04Oct94: 15.0 - 32.0



Test Name: Pregnancy Test, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: Beta HCG, Urinary Chorionic Gonadotropin

Qualitative

Reference Ranges:

Pregnancy Test, Urine

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: Negative

Test Name: Pregnanediol, Urine **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Pregnanediol, Urine mg/24hr (SI: $\mu mol/d = 3.12 \text{ x mg}/24hr$)

Performed at Mayo Medical Labs, Rochester MN

Effective 01Jun90 – 01Sep95:

Male & Female

0Y-2Y < 0.1

3Y-5Y < 0.3

6Y-9Y < 0.5

Male

 $10Y-15Y \quad 0.1-1.2$

>=16Y 0.0 – 1.9

Female

 $10Y-15Y \quad 0.1-0.7$

>=16Y 0.0 – 4.5

Effective 01Jun88 – 31May90:

Male 0 - 1.5

Female

Follicular 0 - 1.5

Luteal 2-7

Postmenopausal 0.2 - 1

Test Name: Pregnanetriol, Urine **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

This test no longer performed beginning May 4, 2004 **Pregnanetriol, Urine** *mg/24hr* (SI: µmol/d = 2.97 x mg/24hr)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 04May04:

0Y-5Y < 0.1

0Y-5Y < 0.16Y-9Y < 0.3

Male

10Y-15Y 0.2 - 0.6 >=16Y 0.2 - 2

Female

10Y-15Y 0.1 - 0.6>= 16Y 0 - 1.4

Performed at SmithKline Beecham, Van Nuys CA Effective 01Jun90 - 18Sep94:

0Y-5Y < 0.16Y-9Y < 0.3

Male

10Y-15Y 0.2 - 0.6 >=16Y 0.2 - 2

Female

 $10Y-15Y \quad 0.1 - 0.6$ >= $16Y \quad 0 - 1.4$

Effective 04Jan89 - 31May90:

Infant 0 - 0.19 Child 0 - 0.99 Adult 0 - 1.9 >= 13Y 0 - 2



Test Name: Primidone

Department: Laboratory Medicine

Lab Area:

Synonyms: Mysoline

Reference Ranges:

Primidone mg/L (SI: μ mol/L = 4.58 x mg/L) (mg/L = μ g/mL) Performed at National Institutes of Health, Bethesda MD Effective 24Feb81 - 10Jan01 Therapeutic 5 – 12 Toxic >15

Performed at MetPath Labs, Rockville MD Effective until 24Feb81: Therapeutic 5 – 12 Toxic >15

Test Name: Procainamide and N-Acetyl-Procainamide

Department: Laboratory Medicine

Lab Area: Chemistry
Synonyms: Pronestyl, NAPA

Reference Ranges:

NO LONGER OFFERED AS OF MARCH 12, 2003

Procainamide mg/L (SI: $\mu mol/L = 4.23 \text{ x mg/L}) (mg/L = \mu g/mL)$

Performed at National Institutes of Health, Bethesda MD

Effective 24Feb81 - 11Mar03:

Therapeutic 4-10Toxic >10-12

NAPA mg/L (SI: μ mol/L = 3.61 x mg/L) (mg/L = μ g/mL)

Effective 24Feb81 - present:

Therapeutic 5-30Toxic >40



Test Name: Procollagen Peptide-I **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: PCP-I

Reference Ranges:

Test no longer available effective 9/10/2003

Procollagen Peptide-I µg/L

Performed at Quest Diagnostics, San Juan Capistrano CA

Effective 08Jan03 – 10Sep03:

Males: 45 - 240 Females: 45 - 190



Test Name: Progesterone

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Progesterone ng/mL (SI: nmol/L = 3.18 x ng/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 17Oct01 - present: Males $\ge 16Y$ 0.27 - 0.9

Females:

Follicular 0.33 - 1.20Luteal 0.72 - 17.8Postmenopausal < 0.2 - 1Oral Contraceptives 0.34 - 0.92

Males & Females:

Cord 350 – 750 1D-3M 0.25 – 17 4M-12M <0.2 – 2 1Y-9Y <0.2 – 1.3

Performed at Mayo Medical Labs, Rochester MN

Effective 06Apr98 – 16Oct01: F/M Cord Blood 569 – 1107 F/M 0M-23M 0.87 – 3.37

Female:

2Y-9Y 0.2 - 0.24

10Y-17Y values increase thru puberty & adoles.

Follicular 0-1.50Luteal 2-20Postmenopausal 0-1.1

Male:

2Y-9Y 0.12-0.14

10Y-17Y Adult values attained by puberty

>= 18Y 0 – 1.2

Effective 19Sep94 – 05Mar98: F/M Cord Blood 569 – 1107 F/M 0Y-1Y 0.87 – 3.37

Female:

2Y-9Y 0.2-0.24

10Y-18Y values increase thru puberty & adoles.

Follicular 0 - 0.70Luteal 2 - 20

Male:

2Y-9Y 0.12-0.14

10Y-18Y Adult values attained by puberty

>= 19Y 0 - 1.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 15Jan90 – 18Sep94:

Female Follicular 0.1 - 1.5 (20May91 – 18Sep94)

Luteal 2.5 - 28
Postmenopausal <0.2
1st Trimester 9 - 47
2nd Trimester 17 - 146
3rd Trimester 55 - 255

Male: <0.4 (20May91 – 18Sep94)

Effective 15Jan90 – 19May91:

Female, follicular <1.5 Male <0.5

Effective 04Jan89 – 14Jan90:

Female:

Follicular 0 - 149
Luteal 250 - 2800
Postmenopausal 0 - 19
1st Trimester 900 - 4700
2nd Trimester 1700 - 14600
3rd Trimester 5000 - 25000
Male: 0 - 49

Effective 14Jan88 – 03Jan89:

Female:

Follicular 0.2 - 0.9
Luteal 3 - 36
Postmenopausal 0 - 0.3
1st Trimester 12 - 45
2nd Trimester 45 - 80
3rd Trimester 80 - 160
Prepub 0 - 3.4

Male

Adult 0 - 0.31 Prepubertal 0 - 0.26



Test Name: Progesterone, 17-OH Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

Progesterone, 17-OH ng/dL (SI: nmol/L = 0.03 x ng/dL)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present:

Newborns 0-629Female, follicular 0-79Female, luteal 0-284Postmenopausal 0-50Female, prepubertal 0-99Male, prepubertal 0-109Male, adult 0-219

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 - 18Sep94:

Infant, 1D-8D <150 Infant, 1M-12M <220 Female, follicular <80 Postmenopausal <50 Female, prepubertal <200 Male, prepubertal <110

Effective 04Jan89 - 18Sep94: Infant, 1D-8D 90 - 630 Female, luteal 30 - 290 Female, follicular 10 - 80 Postmenopausal 0 - 19 Male, adult 30 - 220

Effective 31Mar88 - 03Jan89:

Infant, 1D-8D 0 - 2Infant, 1M-12M 0 - 2.2Female, prepubertal 0 - 2Female, follicular 0 - 0.8Female, luteal 0.3 - 2.9Postmenopausal 0 - 0.5Male, prepubertal 0 - 1.1Male, adult 0.3 - 2.2



Test Name: Proinsulin

Department: Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Proinsulin *pmol/L* (SI: μ g/L = 0.0097 x pmol/L) and (μ g/L = ng/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 14Jun00 - present: 3 - 20

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 19Sep94 - 13Jun00: 0 - 0.2 ng/mL

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: 0 - 0.2 ng/mL

Effective 25Mar88 - 30Apr90: 0 - 0.5 ng/mL



Test Name: Prolactin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Prolactin $\mu g/L$ (SI: $\mu g/L$) and $(ng/mL = \mu g/L)$

Performed at National Institutes of Health, Bethesda MD

Effective 14Jan04 - present: 1 - 25 Effective 07Feb96 - 13Jan04: 1 - 11 Effective 01Sep93 - 06Feb96: 2 - 16 Effective 10Oct91 - 31Aug93: <20 ng/mL

Performed at SmithKline Beecham, Van Nuys CA

Effective 30Jul88 - 09Oct91: <20 *ng/mL* Effective 01Oct87 - 29Jul88: 0 - 25 *ng/mL*

Effective 01Jan79 - 30Sep87:

Female $3 - 15 \, ng/mL$ Male $2 - 11 \, ng/mL$



Test Name: Properdin Factor B **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Complement Component 3 Proactivator

Reference Ranges:

Properdin Factor B mg/dL (SI: mg/dL = 0.01 x g/L) Performed at Mayo Medical Labs, Rochester MN

Effective 30Jul97 – present: 18 – 46



Test Name: Propranolol

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Inderal

Reference Ranges:

Propranolol $\mu g/L$ (SI: nmol/L = 3.86 x $\mu g/L$) ($\mu g/L = ng/mL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present:

Therapeutic 50 - 100 Toxic >=1000

Performed at SmithKline Beecham, Van Nuys CA

Effective 18Mar88 - 18Sep94:

Therapeutic 50 - 100 Toxic not defined



Test Name: Prostatic Acid Phosphatase (PAP), Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Prostatic Acid Phosphatase (PAP), Serum ng/mL (SI: U/L = 0.23 x ng/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 14Jan04 - present: 0.0 - 2.1 Effective 04Sep02 - present: 0.0 - 2.7

Serum markers are not specific for malignancy and values may vary by method.



Test Name: Prostatic Fluid Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Prostatic Fluid Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Prostatic Specific Antigen Laboratory Medicine

Lab Area: Chemistry
Synonyms: PSA

Reference Ranges:

Prostatic Specific Antigen $\mu g/L$ (SI: $\mu g/L$) ($\mu g/L = ng/mL$) Performed at National Institutes of Health, Bethesda MD Effective 09Jun93 – present: <4

Performed at SmithKline Beecham, Van Nuys CA Effective 25Mar88 - 08Jun93: <4 ng/mL



Test Name: Protein C

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Protein C % (SI: fraction= 0.01 x %)

Performed at National Institutes of Health, Bethesda MD

Effective 20Jan99 – present: 72 – 149 Effective 18Mar98 – 19Jan99: 80 – 160



Test Name: Protein Quantitative, Urine

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Protein Quantitative, Urine mg/24hr (SI: $mg/d = 1 \times mg/24hr$)

Performed at National Institutes of Health, Bethesda MD

Effective 13Jun01 – present: Excretion 30 – 150 Effective 30Jul97 – 12Jun01: Excretion 30 – 100

Effective 02Aug86 - 29Jul97: Excretion 0.03 - 0.1 g/24hr Effective 01Jun82 - 01Aug86: Excretion 0.05 - 0.1 g/24hr



Test Name: Protein S

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Protein S % (SI: fraction= $0.01 \times \%$)

Performed at National Institutes of Health, Bethesda MD

Effective 20Jan99 – present: 64 – 131 Effective 18Mar98 – 19Jan99: 57 – 173



Test Name: Proteinase-3 Antibody Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: PR3, PR-3

Reference Ranges:

Proteinase-3 Antibody U/mL (SI: U/mL)
Performed at Mayo Medical Labs, Rochester MN.
Effective18Nov03 - present:
 <=5.0 EU/mL is Negative
5.1 - 14.9 EU/mL is Equivocal
 >15.0 EU/mL is Positive

Effective18Jun02 - 17Nov03: <=5.0 EU/mL is Negative >5.0 EU/mL is Positive

Performed at FOCUS Technologies, Cypress CA Effective 07May01 - 17Jun02: Ab not detected <3.5 U/mL Ab detected >=3.5 U/mL

Performed at Microbiology Reference Labs, Cypress CA Effective 08Nov00 - 06May01: <0.90 ELISA units

Interpretation:

PR-3 (proteinase 3) antibody is a marker for Wegener's granulomatosis and is rarely detected in microscopic polyarteritis. The quantity of PR-3 antibody generally parallels disease activity, where an increase in disease activity is accompanied by increasing values of PR-3 antibody. Antibody to PR-3, an elastinolytic neutral serine protease, is responsible for the cytoplasmic pattern of anti-neutrophil cytoplasmic antibodies.



Test Name: Protein, Total, CSF **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Protein, Total, CSF mg/dL (SI: mg/L = 10 x mg/dL) Performed at National Institutes of Health, Bethesda MD

Effective 14Nov85 - present:

Lumbar 15 - 45

Cisternal 15 - 25 (12Apr89 - present)

Ventric 5 - 15

Effective 14Nov85 - 11Apr89: 12 - 25 Effective 01Jan79 - 13Nov85: 15 - 45



Test Name: Protein, Total, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Protein, Total, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present



Test Name: Protein, Total, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Protein, Total, Serum g/dL (SI: $g/L = 10 \times g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 – present: 6.0 - 7.6 Effective 01Jan79 - 30Nov88: 6.1 - 7.7



Test Name: Protein/Creatinine Ratio, Urine

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Protein/Creatinine Ratio, Urine

Performed at National Institutes of Health, Bethesda MD

Effective 11Mar98 – present: 0.001 – 0.160



Test Name: Proteus OxK, Ox19, Ox2 **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed **Proteus OxK, Ox19, Ox2**Performed at SmithKline Beecham, Van Nuys CA

Effective 01Sep90 – 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Prothrombin 20210 Mutation Analysis

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms: Factor II 20210 mutation, PT20210 mutation

(G20210A)

Reference Ranges:

Prothrombin 20210 Mutation Analysis

Performed at National Institutes of Health, Bethesda MD

Effective 13Jun01 – present:

An interpretive report will indicate whether or not results are consistent with a diagnosis of PT 20210 of the Prothrombin gene.



Test Name: Prothrombin Time **Department:** Laboratory Medicine

Lab Area: Hematology **Synonyms:** Protime, PT

Reference Ranges:

Prothrombin Time sec.

Performed at National Institutes of Health, Bethesda MD Effective 15Sep99 – present: Automated 11.8 – 14.7 Effective 08Aug95 – 19Jan99: Automated 11.2 – 12.8 Effective 01Sep83 - 07Aug95: Automated 9.4 - 13.7

Effective 20Jan99 – present: Fibrometer 11.3 – 14.0 Effective 01Jan79 – 19Jan99: Fibrometer 10.5 – 13.2



Test Name: Protoporphyrins, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Obsolete test as of 12Oct99. Order Porphyrins, Quantitative, Urine

Protoporphyrins, Urine

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – 12Oct99: Not detectable



Test Name: Psittacosis Antibody Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

No longer performed as a separate test as of December 14, 1995. This is part of the Chlamydia Antibody Panel. See Chlamydia Antibody.

Psittacosis Antibody titer (SI: titer)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 14Dec95:

IgM <1:10 IgG <1:64

Performed at Centers for Disease Control, Atlanta GA

Effective until 01Mar86: No ranges available



Test Name: Psittacosis Serology CSF **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Psittacosis Serology CSF Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – 05Mar95

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94



Test Name: PT Mixing Study **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Prothrombin Time sec.

Performed at National Institutes of Health, Bethesda MD Effective 15Sep99 – present: Automated 11.8 – 14.7 Effective 08Aug95 – 19Jan99: Automated 11.2 – 12.8 Effective 01Sep83 - 07Aug95: Automated 9.4 - 13.7

Effective 20Jan99 – present: Fibrometer 11.3 – 14.0 Effective 01Jan79 – 19Jan99: Fibrometer 10.5 – 13.2



Test Name: PTH-Related Peptide Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: PTH-RP

Reference Ranges:

PTH-Related Peptide *pmol/L* (SI: pmol/L) Performed at Mayo Medical Labs, Rochester MN

Effective 14Jun00 - present: 0.00 - 1.90

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 20Sep94 – 13Jun00: 0.00 – 1.30 Effective 04Aug93 – 19Sep94: 0.00 – 1.49



Test Name: PTH Intra-operative Serial

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Quick PTH, Bioactive

Reference Ranges:

PTH Intra-operative Serial pg/mL (SI: ng/L = 1.0 x pg/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 13Nov02 – present: 6 - 40 Effective 01Feb00 – 12Nov02: 25 - 80



Test Name: PTT Long Incubation **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

PTT Long Incubation seconds

Performed at National Institutes of Health, Bethesda MD

Effective 24Jul02 - present: 23.4 - 34.5



Test Name: PTT Mixing Study Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

PTT Mixing Study

Partial Thromboplastin Time seconds

Performed at National Institutes of Health, Bethesda MD

Effective 20Jan99 – present: Automated: 23.4 – 34.5 Fibrometer: 24.4 - 35.6

Effective 08Aug95 – 19Jan99: Automated 23.7 – 35.0 Effective 08Sep83 - 07Aug95: Automated 22.5 - 34.8 Effective 01Jan79 - 19Jan99: Fibrometer 25.8 - 38.6



Test Name: Purkinje Cell Cytoplasmic Antibody Type 1

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:PCA-1, Anti-Yo

Reference Ranges:

Purkinje Cell Cytoplasmic Antibody Type 1 titer (SI: titer)

Performed at Mayo Medical Labs, Rochester MN Effective 11Mar98 – present: Negative at < 1:60

Test Name: Pyridinium Cross-Links **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Deoxypyridinoline, Pyridinoline

Reference Ranges:

Pyridinium Cross-Links *µmol/mol creat* (SI: µmol/mol creat)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present:

Deoxpyridinoline

Male 22Y - 80Y - 5 - 14Female 20Y - 50Y - 5 - 22

M&F all other ages not established

Pyridinoline

Male 22Y - 80Y 18 - 40

Female $20Y - 50Y \quad 20 - 62$

M&F all other ages not established

Performed at SmithKline Beecham, Van Nuys CA

Effective 07Jul93 – 18Sep94:

Deoxpyridinoline

2Y-10Y 31.0 - 110.0 11Y-14Y 17.0 - 100.0 15Y-17Y 0.0 - 59.0 Male 18Y-50Y 4.0 - 19.0 Female 18Y-50Y 4.0 - 21.0

Pyridinoline

2Y-10Y 160.0 - 440.0 11Y-14Y 105.0 - 400.0 15Y-17Y 42.0 - 200.0 Male 18Y-50Y 20.0 - 61.0 Female 18Y-50Y 22.0 - 89.0



Test Name: Pyruvate

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs **Synonyms:** Pyruvic Acid

Reference Ranges:

Pyruvate mg/dL (SI: μ mol/L = 114 x mg/dL) Performed at Mayo Medical Labs, Rochester MN

Effective 05Jun96 - present: 0.7 – 1.4 Effective 15Jan90 - 04Jun96: 0.3 - 0.9

Performed at SmithKline Beecham, Van Nuys CA Effective 18Oct79 - 14Jan90: 0.034 - 0.102 mmol/L Effective 01Jan79 - 17Oct79: 0.3 - 0.9 mmol/L



Test Name: Q Fever Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: C. burnetti

Reference Ranges:

Q Fever Antibody titer (SI: titer)

Performed at Mayo Medical Labs, Rochester MN

Effective 26Oct04 – present: Phase I and II Ab, IgG <1:16 Phase I and II Ab, IgM <1:16

Effective 19Sep94 - 25Oct04:

IgG <1:10 patient not infected w/ C.burnetii

IgG >= 1:10 patient has been infected w/ C. burnetii

IgG >=1:160 patient has recent or active infection w/C.burnetii IgM >=1:10 patient has recent or active infection w/C.burnetii

Interpretation:

A fourfold or greater rise in paired sera IgG titer indicates recent or active infection with C.burnetii.



Test Name: Quantitative Epstein-Barr Virus PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Quantitative EBV PCR

Reference Ranges:

Quantitative Epstein-Barr Virus PCR

Performed at National Institutes of Health, Bethesda MD Effective 13Feb02 – present:

Calculated EBV genome equivalents of up to 200 copies per one million human mononuclear cells can be detected using this assay with WBC preparations from normal healthy EBV seropositive adults.

Performed at Mayo Medical Labs, Rochester MN Effective 06Mar99 – 12Feb02: No ranges available



Test Name: Quantitative Orthopoxvirus PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Orthopoxvirus PCR

Reference Ranges:

Quantitative Orthopoxvirus PCR



Test Name: Quantitative Orthopoxvirus PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Orthopoxvirus PCR

Reference Ranges:

Quantitative Orthopoxvirus PCR



Test Name: Quantitative Orthopoxvirus PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Orthopoxvirus PCR

Reference Ranges:

Quantitative Orthopoxvirus PCR



Test Name: Quantitative Orthopoxvirus PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Orthopoxvirus PCR

Reference Ranges:

Quantitative Orthopoxvirus PCR



Test Name: Quantitative Orthopoxvirus PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Orthopoxvirus PCR

Reference Ranges:

Quantitative Orthopoxvirus PCR



Test Name: Quantitative Orthopoxvirus PCR

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: Orthopoxvirus PCR

Reference Ranges:

Quantitative Orthopoxvirus PCR



Test Name: Quinidine

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Quinidine mg/L (SI: $\mu mol/L = 3.08 \text{ x mg/L}) (mg/L = \mu g/mL)$

Performed at National Institutes of Health, Bethesda MD

Effective 24Feb81 – 10Jan01:

Therapeutic 2-5Toxic >6



Test Name: Reducing Substances **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Reducing Substances

Performed at Mayo Medical Labs, Rochester MN Effective 14Apr04 - present:

Trace: Normal <0.25 g/dL

Grade 1: Suspicious 0.25-0.50 g/dL Grades 2-4: Abnormal >0.50 g/dL

Effective 19Sep94 - 13Apr04: Normal digestion: negative

Abnormal digestion: trace 1+, 2+, 3+, 4+

Performed at SmithKline Beecham, Van Nuys CA Effective 01Jul92 - 18Sep94

Performed at MetPath Labs, Rockville MD Effective until 30Jun92



Test Name: Renin

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Renin ng/mL/hr (SI: $\mu g/L/hr = 1.0 \text{ x ng/mL/hr}$)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present:

Na-depleted, upright (peripheral vein)

18Y-39Y 2.9-24.0 >=40Y 2.9-10.8

Na-replete, upright (peripheral vein)

18Y-39Y 0.6-4.3 >=40Y 0.6-3.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 30Mar88 - 18Sep94:

Norm diet (75-150 mmol Na/day)

Supine 0.2 - 2.3 Upright 1.3 - 4.0

Low Salt Diet (30-75 mmol Na/day)

Upright 4.1 - 7.7



Test Name: Renin Esoterix **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: PRAKE

Reference Ranges:

Renin Esoterix ng/dL/hr (SI: $ng/dL/hr \times 0.01 = \mu g/L/hr$) Performed at Esoterix Endocrinology, Calabasas Hills CA Effective 10Sep03 – present:

0-30D Varies
31D-11M 235-3700
12M-2Y 171-1115
3-4Y 100-650
5-9Y 50-585
10-14Y 50-330
>=15Y Varies
Adults, supine 20-160

Adults, upright 70-330



Test Name: Renin, Direct

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Direct Renin micro U/mL

Performed at National Institutes of Health, Bethesda MD

Effective 10Dec03 – present:

Upright/sitting posture 3.3 - 41Supine posture 2.4 - 29



Test Name: Reptilase

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Reptilase seconds

Performed at National Institutes of Health, Bethesda MD

Effective 13Jun01 – present: 20 - 29



Test Name: Resin T3 Uptake **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed **Resin T3 Uptake** *ratio*Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jan79 – 03Jan89: 0.83 - 1.18



Test Name: Resistant Enterococcus Culture

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** VRE culture

Reference Ranges:

Resistant Enterococcus Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No vancomycin-resistant Enterococcus isolated



Test Name: Resistant Enterococcus Culture

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** VRE culture

Reference Ranges:

Resistant Enterococcus Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No vancomycin-resistant Enterococcus isolated



Test Name: Respiratory Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Respiratory Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 02Nov91 – present:

Gram Stain: No WBCs, No organisms seen Culture: Oro/pharyngeal flora or No growth.

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Respiratory Syncytial Virus - Rapid Test

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: RSV **Reference Ranges:**

Respiratory Syncytial Virus - Rapid Test

Performed at National Institutes of Health, Bethesda MD Effective 07Dec94 – present: Negative for RSV by DFA



Test Name: Respiratory Syncytial Virus - Rapid Test

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** RSV-DFA

Reference Ranges:

Respiratory Syncytial Virus - Rapid Test

Performed at National Institutes of Health, Bethesda MD Effective 07Dec94 – present: Negative for RSV by DFA



Test Name: Respiratory Syncytial Virus - Rapid Test

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** RSV-RAPID

Reference Ranges:

Respiratory Syncytial Virus - Rapid Test

Performed at National Institutes of Health, Bethesda MD Effective 07Dec94 – present: Negative for RSV by EIA



Test Name: Respiratory Syncytial Virus Antibody

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: RS\ **Reference Ranges:**

Respiratory Syncytial Virus Antibodies titer (SI: titer)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present:

IgG <1:10 IgM <1:10

<u>Interpretation:</u>

The presence of IgM class antibodies or a fourfold or greater rise in paired sera IgG titer indicates recent infection. The presence of demonstrable IgG generally indicates past exposure and immunity.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Respiratory Virus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Respiratory Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 01Nov91



Test Name: Respiratory Virus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Respiratory Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 01Nov91



Test Name: Respiratory Virus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Respiratory Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 01Nov91



Test Name: Respiratory Virus Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Respiratory Virus Culture

Performed at National Institutes of Health, Bethesda MD Effective 02Nov91 – present: No virus isolated

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 01Nov91



Test Name: Reticulin Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs **Synonyms:** Celiac Disease

Reference Ranges:

Reticulin Antibodies

Performed at Mayo Medical Labs, Rochester MN Effective 17Apr00 - present: Negative Reticulin Abs are found in patients with gluten-sensitive enteropathy dermatis herpetiformis, and Crohn's disease.



Test Name: Reticulocyte Count Laboratory Medicine

Lab Area: Hematology

Synonyms: Retic

Reference Ranges:

Reticulocyte Count % (SI: fraction= 0.01 x %)

Performed at National Institutes of Health, Bethesda MD

Effective 23Sep93 - present: 0.7 - 2.4Retic Absolute $K/\mu L$: 31.7 - 104.6

Effective 05Apr90 - 22Sep93:

Male: 0.8 - 2.7 Female: 0.6 - 2.9

Effective 18Sep86 - 04Apr90:

Male: 0.2 - 1.9 Female: 0.2 - 2

Effective 01Jan79 - 17Sep86: 0.5 - 1.5



Test Name: Retinol

Department: Laboratory Medicine

Lab Area: Chemistry **Synonyms:** Vitamin A

Reference Ranges:

Retinol $\mu g/dL$ (SI: $\mu mol/L = 0.0349 \text{ x } \mu g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 15Sep99 - present: 36 - 120

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 14Sep99: 36 – 120

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Apr85 – 18Sep94: 30 - 95

Effective 01Jan79 – 31Mar85: 65 - 275 *IU/dL*



Test Name: Rheumatoid Factor **Department:** Laboratory Medicine

Lab Area: Immunology

Synonyms: Reference Ranges:

Rheumatoid Factor IU/mL (SI: kU/L = IU/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present: 0 - 20 Effective 05Oct94 – 10Jun03: < 20 Effective 03May91 – 04Oct94: < 25

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Sep90 – 02May91: Done as titer. No ranges available

Performed at American Medical Labs, Chantilly VA

Effective until 31Aug90: Done as titer. No ranges available



Test Name: Rheumatoid Factor, Fluid **Department:** Laboratory Medicine

Lab Area: Immunology

Synonyms:

Reference Ranges:

Rheumatoid Factor, Fluid *IU/mL* (SI: kU/L = IU/mL) Performed at National Institutes of Health, Bethesda MD Effective 03May91 – present



Test Name: Ribosomal P Antibody **Department:** Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

Ribosomal P Antibody

Performed at Focus Technologies, Cypress CA Effective 24Nov03 - Present:

Negative: <1.0

Effective 12Feb03 – 23Nov03:

< 0.90 Antibody not detected

0.90 - 1.10 Equivocal; submission of a second specimen (collected 3-4 weeks after initial specimen) suggested if clinically warranted.

>1.10 Antibody Detected

The presence of ribosomal P antibody has been reported to occur in up to 20% of systemic lupus erythematosus (SLE) patients. Ribosomal P antibody may be associated with the neuropsychiatric manifestations of SLE; however, this association has not been confirmed by all investigators. Lupus hepatitis is also associated with the presence of ribosomal P antibody.



Test Name: Rickettsia Antibody Panel Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: Rocky Mountain Spotted Fever, Murine

Typhus Fever

Reference Ranges:

Rickettsia Antibody Panel titer

Performed at Mayo Medical Labs, Rochester MN Effective 03Aug04 – present: Spotted Fever Ab Group, IgG <1:64 Spotted Fever Ab Group, IgM <1:64 Typhus Fever Ab Group, IgG <1:64 Typhus Fever Ab Group, IgM <1:64



Test Name: Rickettsia Battery **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test is no longer offered as a battery. Order individual tests. **Rickettsia Battery Complement Fixation**

Performed at American Medical Labs, Chantilly VA Effective 02Mar86 – 31Aug90: No ranges available

Performed at Center for Disease Control, Atlanta GA Effective until 01Mar86: No ranges available



Test Name: Rocky Mountain Spotted Fever Antibody

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Rickettsial Ab

Reference Ranges:

Discontinued at Mayo on August 3, 2004 - Refer to Rickettsial Ab Panel test for new information

Rocky Mountain Spotted Fever Antibody titer (SI: titer)

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 02Aug04:

 $IgG \le 1:32$

<u>Interpretation:</u>

Detectable antibody in a single serum specimen indicates exposure to Rickettsia rickettsii. A fourfold or greater rise in paired sera IgG titer indicates recent infection.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective 02Mar86 – 31Aug90: No ranges available

Performed at Center for Disease Control, Atlanta GA Effective until 01Mar86: No ranges available



Test Name: Rotavirus EIA Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Rotavirus EIA

Performed at National Institutes of Health, Bethesda MD Effective 01Jan90 – present: Negative for Rotavirus by EIA



Test Name: RPR, Serum

Department: Laboratory Medicine

Lab Area: Immunology
Synonyms: Syphilis, VDRL

Reference Ranges:

RPR, Serum

Performed at National Institutes of Health, Bethesda MD Effective 19May82 – present: Nonreactive



Test Name: Rubella Culture **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Rubella Culture

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Rubella Virus Antibody IgG, CSF

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: German three day measles

Reference Ranges:

Rubella Virus Antibodies IgG, CSF

Performed at Focus Technologies, Cypress CA Effective 19Sep94 – present: IgG: reported as immune or nonimmune.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: Ranges not available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: Ranges not available



Test Name: Rubella Virus Antibody IgG, Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: German three day measles

Reference Ranges:

Rubella Virus Antibody IgG, Serum

Performed at Mayo Medical Labs, Rochester MN Effective 12May04 – present: Positive

Effective 19Sep94 – 11May04:

IgG: reported as immune or nonimmune.

<u>Interpretation:</u>

Assay results of <10 IU/mL are "nonimmune".

Results of $\geq 10 \text{ IU/mL}$ are "immune".

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: Ranges not available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: Ranges not available



Test Name: Rubella Virus Antibody IgM

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: German three day measles

Reference Ranges:

Rubella Virus Antibody IgM

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present: Negative

The presence of IgM class antibodies indicates congenital or recent infection.

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Sep90 – 18Sep94: Negative

Performed at American Medical Labs, Chantilly VA

Effective until 31Aug90: Negative



Test Name: Rubeola Culture **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Rubeola Culture

Performed at American Medical Labs, Chantilly VA Effective until 01Nov91



Test Name: SAAD Toxicology Screen, U

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Drug Screen

Reference Ranges:

SAAD Toxicology Screen, U

Performed at Mayo Medical Labs, Rochester MN Effective 30Sep03 – present: None detected

Cutoff concentrations:

Alcohol 300 ug/mL 1000 ng/mL **Amphetamines** Barbiturates 200 ng/mL Benzodiazepines 200 ng/mL Cocaine 300 ng/mL**Opiates** 300 ng/mL Propoxyphene 300 ng/mL Tetrahydrocannabinol 20 ng/mLReported as Negative or Positive:

Amitriptyline/Nortriptyline Desipramine/Imipramine Doxepin/Nordoxepin

Fluoxetine

Effective 30Sep02 – present: None detected

Cutoff concentrations:

Alcohol 300 ug/mL Amphetamines 1000 ng/mL Barbiturates 200 ng/mL Benzodiazepines 100 ng/mL Cocaine 300 ng/mL **Opiates** 300 ng/mL Propoxyphene 300 ng/mL Tetrahydrocannabinol 20 ng/mLReported as Negative or Positive:

Amitriptyline/Nortriptyline Desipramine/Imipramine

Doxepin/Nordoxepin

Fluoxetine

Chlorpheniramine Bromphenirmine Diphenhydramine Promethazine

Caffeine

Pseudoephedrine

Ephedrine

Phenylpropanolamine

Propranolol

Effective 03May95 – 29Sep02: None detected

Cutoff concentrations:

0.03 g/dLAlcohol Amphetamines 500 ng/mL Barbiturates 200 ng/mL Benzodiazepines 200 ng/mL 300 ng/mL Cocaine Opiates 300 ng/mL Propoxyphene 300 ng/mL Tetrahydrocannabinol 20 ng/mL Reported as Negative or Positive:

Amitriptyline/Nortriptyline Desipramine/Imipramine

Doxepin/Nordoxepin

Fluoxetine

Chlorpheniramine

Bromphenirmine

Diphenhydramine

Promethazine

Caffeine

Pseudoephedrine

Ephedrine

Phenylpropanolamine

Propranolol

Performed at American Medical Labs, Chantilly VA Effective 06Feb92 – 03May95: None detected



Test Name: Salicylate

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Aspirin, Salicylic Acid

Reference Ranges:

Salicylate mg/L (SI: mmol/L = 0.00724 x mg/L) Performed at Mayo Medical Labs, Rochester MN Effective 31May95 – present: Therapeutic 20 – 200

Therapeutic 20 - 200Toxic >=500

Performed at American Medical Labs, Chantilly VA Effective 02Apr92 – 30May95 Therapeutic as analgesic and antipyretic <100 Therapeutic as antiinflammatory agent 150 – 300 Toxic as antiinflammatory >300

Performed at MetPath Labs, Rockville MD Effective until 03Sep87 – 01Apr92 Thera as analgesic and antipyretic $<100~\mu g/mL$ Thera as antiinflammatory agent $150-300~\mu g/mL$ Toxic as antiinflammatory $>300~\mu g/mL$

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – 02Sep87: <100



Test Name: Salicylate, Fluid
Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Aspirin, Salicylic Acid

Reference Ranges:

Salicylate mg/L (SI: mmol/L = 0.00724 x mg/L) also (ug/mL = mg/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 – 07Nov04:

Therapeutic 20 - 200Toxic >=500

Performed at American Medical Labs, Chantilly VA Effective 02Apr92 – 30May95 Therapeutic as analgesic and antipyretic <100 Therapeutic as antiinflammatory agent 150 – 300 Toxic as antiinflammatory >300

Performed at MetPath Labs, Rockville MD Effective until 03Sep87 – 01Apr92 Thera as an algesic and antipyretic $<100~\mu g/mL$ Thera as antiinflammatory agent $150-300~\mu g/mL$ Toxic as antiinflammatory $>300~\mu g/mL$

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – 02Sep87: <100



Test Name: Salmonella A,B,E,H Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Salmonella A,B,E,H

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90



Test Name: Schilling Test I & II **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Test no longer performed

Schilling Test I & II *percent* (SI: fraction = 0.01 x percent) Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – 09Oct02: 10 - 40 %



Test Name: Schilling Test I, II (Obsolete)

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Test no longer performed as of Oct 2, 2000

Schilling Test I, II % (SI: fraction= 0.01 x %)

Performed at National Institutes of Health, Bethesda MD

SCHILLING TEST I:

Effective 27Jun84 - 01Oct00: 10 - 40

SCHILLING TEST II:

Effective 27Jun84 - 01Oct00: 10 - 40



Test Name: Schistosoma Antibody Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Schistosoma Antibody

Performed at Center for Disease Control, Atlanta GA Effective 12Jun02 – present

Performed at Focus Technologies, Cypress CA Effective 26Jan96 – 11Jun02: Negative <1.0 Effective 04Jan89 – 25Jan96: Antibody not detected <10

Schistosomiasis Indirect Fluoresent Ab Performed at American Medical Labs, Chantilly VA Effective 01Sep90 – 18Sep94

Schistosomiasis Mansoni Ab Performed at American Medical Labs, Chantilly VA until 18May82.



Test Name: Schistosoma Exam **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Schistosoma Exam

Performed at National Institutes of Health, Bethesda MD Effective 13Oct99 – present: Negative for Schistosoma



Test Name: Scl 70 Autoantibodies, Serum

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Topoisomerase, Scleroderma

Reference Ranges:

Scl 70 Autoantibodies, Serum

Performed at Mayo Medical Labs, Rochester MN Effective 09Apr03 – present: <20.0 Units (negative) 20.0-24.9 Units (borderline) > or = 25.0 Units (positive)



Test Name: Scrub Typhus Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs **Synonyms:** Rickettsial Ab

Reference Ranges:

Scrub Typhus Antibody titer (SI: titer)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present: <=1:40

<u>Interpretation:</u>

Negative to a titer of 1:40 is normal.

A fourfold or greater rise in paired sera titer indicates recent infection.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective 02Mar86 – 31Aug90: No ranges available

Performed at Center for Disease Control, Atlanta GA Effective until 01Mar86: No ranges available



Test Name: Serotonin, Whole Blood Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Serotonin, Whole Blood ng/mL (SI: $\mu mol/L = 0.00568 \times ng/mL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Oct – present: 50 - 330

Performed at ARUP Laboratories, Salt Lake City UT

Effective 08Dec99 - 18Oct04: 50 - 200

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 19Sep94 - 07Dec99: 55 - 260

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Aug89 – 18Sep94: 46 – 319 Effective 04Jan89 – 31Jul89: 50 – 185 Effective 08Mar88 – 03Jan89: 50 – 175



Test Name: Sex Hormone Binding Globulin

Department: Laboratory Medicine

Lab Area: Chemistry Synonyms: SHBG

Reference Ranges:

Sex Hormone Binding Globulin *nmol/L* (SI: nmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 10Mar04 – present:

Male 13 - 71

Female 18 – 114 (non-pregnant)

Children (from Elmlinger)

Males

Age, mean	nmol/L
7.1(pre-pube	ertal) 28-150
11.5	44-160
13.6	5.5-163
15.1	13-88
18.0	10-60
	7.1(pre-pube 11.5 13.6 15.1

^{*}Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for boys at a median age of 11.5 (+/-2) years. For boys there is no definite proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage 5 (young adult) should be reached by age 18.

Females

Age, mean	nmol/L
7.1(pre-pube	rtal) 39-176
10.5	7.2-107
11.6	28-171
12.3	28-149
14.5	20-130
	7.1(pre-pube 10.5 11.6 12.3

*Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for girls at a median age of 10.5 (+/-2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. Progression through Tanner stages is variable. Tanner stage 5 (young adult) should be reached by age 18.

Effective 13Jan04 – 09Mar04:

Male 10 - 60

Female 20-130 (non-pregnant)

Children (from Elmlinger)

Males

Tanner Stages:	Age, mean	nmol/L
Stage I*:	7.1(pre-pub	ertal) 28-150
Stage II:	11.5	44-160
Stage III:	13.6	5.5-163
Stage IV:	15.1	13-88
Stage V:	18.0	10-60

^{*}Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for boys at a median age of 11.5 (+/-2) years. For boys there is no definite proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage 5 (young adult) should be reached by age 18.

Females

Tanner Stages:	Age, mean	nmol/L
Stage I*:	7.1(pre-pub	ertal) 39-176
Stage II:	10.5	7.2-107
Stage III:	11.6	28-171
Stage IV:	12.3	28-149
Stage V:	14.5	20-130

*Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for girls at a median age of 10.5 (+/- 2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. Progression through Tanner stages is variable. Tanner stage 5 (young adult) should be reached by age 18.

Effective 06Jul99 – 12Jan04:

Male 10-60Female 20-130

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 05Jul99:

 $\begin{array}{ll} \text{Male} & 10-80 \\ \text{Female} & 20-130 \end{array}$

Performed at SmithKline Beecham, Van Nuys CA

Effective 25Mar88 – 18Sep94:

Male 8-49Female 20-106



Test Name: Sialic Acid, Free, Urine Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Sialic Acid, Free, Urine

Performed at University of Alabama at Birmingham Effective 21Sep01 – present: Reported as Normal or Abnormal

Performed at E.K. Shriver Center, Lysosomal Storage Diseases Lab, Waltham MA Effective 09Oct96 – 20Sep01:

1D-11M 308 – 1036 nmol/mg creat 1Y-2Y 41 – 595 nmol/mg creat 3Y-9Y 50 – 194 nmol/mg creat 10Y-14Y 16 – 162 nmol/mg creat 15Y-150Y 10 – 108 nmol/mg creat



Test Name: Sickle Cell Solubility **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Sickle Cell Solubility

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Negative



Test Name: Sinus Culture/ Gram Stain Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Sinus Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Sirolimus

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Rapamycin

Reference Ranges:

Sirolimus ng/mL (SI: $\mu g/L = 1.0 \text{ x ng/mL}$)

Performed at National Institutes of Health, Bethesda MD

Effective 19Oct04 - present:

Therapeutic 4.0 - 20.0 (Trough)

NOTE: Therapeutic range applies to trough specimens drawn just prior to a.m. dose.

Assay has a limit of sensitivity of 2 ng/mL.

Optimal response to **Sirolimus** is usually associated with trough blood concentration in the range of $4-20 \, ng/mL$.

Dose is adjusted to achieve steady-state trough Sirolimus blood concentrations in the range of $12-20 \ ng/mL$ for liver transplantation or $4-10 \ ng/mL$ for renal transplantation.

Maintaining a concentration >20 ng/mL for prolonged periods predisoposes patients to increased infection.

Steady-state target concentrations are defined by clinical protocol and concentrations frequently deviate from the ranges given here as dose is adjusted to address acute or chronic rejection events and chronic infection.

The method is specific for sirolimus and does not cross-react with metabolites. LC/MS/MS measurement of rapamycin generates results that are 30% lower that when measured by immunoassay.

Performed at Mayo Medical Labs, Rochester MN Effective 20Apr04 - 18Oct04: Therapeutic 4.0 – 20.0 (Trough)

Assay has a limit of sensitivity of 2 ng/mL.

Optimal response to Sirolimus is usually associated with trough blood concentration in the range of 4-20 ng/mL.

Dose is adjusted to achieve steady-state trough Sirolimus blood concentrations in the range of 12-20 ng/mL for liver transplantation or 4-10 ng/mL for renal transplantation.

Maintaining a concentration >20 ng/mL for prolonged periods predisoposes patients to increased infection.

Steady-state target concentrations are defined by clinical protocol and concentrations frequently deviate from the ranges given here as dose is adjusted to address acute or chronic rejection

events and chronic infection.

The method is specific for sirolimus and does not cross-react with metabolites. LC/MS/MS measurement of sirolimus generates results that are 30% lower that when measured by immunoassay.

Effective 10May00 - 19Apr04: Therapeutic 3.0 - 20.0 (Trough) Assay has a limit of sensitivity of 2 ng/mL.

Optimal response to sirolimus is usually associated with trough blood concentration in the range of $3-20 \, ng/mL$.

Dose is adjusted to achieve steady-state trough sirolimus blood concentrations in the range of $12-20 \ ng/mL$ for liver transplantation or $3-10 \ ng/mL$ for renal transplantation.

Maintaining a concentration >20 ng/mL for prolonged periods predisoposes patients to increased infection.

Steady-state target concentrations are defined by clinical protocol and concentrations frequently deviate from the ranges given here as dose is adjusted to address acute or chronic rejection events and chronic infection.

The method is specific for sirolimus and does not cross-react with metabolites. LC/MS/MS measurement of sirolimus generates results that are 30% lower that when measured by immunoassay.



Test Name: Sodium, CSF

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Na **Reference Ranges:**

Sodium, CSF *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 – present: 138-150

Effective 12Apr89 - 31Jul90: $138 - 150 \, mEq/L$ (SI: mmol/L = 1 x mEq/L)

Effective 14Nov85 - 11Apr89: 136 - 150 *mEq/L* Effective 01Jan79 - 13Nov85: 138 - 150 *mEq/L*



Test Name: Sodium, Feces **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Fecal Na

Reference Ranges:

Sodium, Feces

Performed at Mayo Medical Labs, Rochester MN Effective 06Nov96 – present:

24 Hrs $0.0 - 19.9 \, mEq/24hr$ (SI:mmol/d = 1 x mEq/24hr) Random $0.0 - 159.9 \, mEq/kg$ (SI:mmol/kg = 1 x mEq/kg)

Effective 15Mar95 – 05Nov96:

24 Hrs $10.0 - 20.0 \, mEq/kg$ (SI:mmol/kg = 1 x mEq/kg) Random $10.0 - 20.0 \, mEq/kg$ (SI:mmol/kg = 1 x mEq/kg)

Performed at American Medical Labs, Chantilly VA Effective 02Jan85 – 14Mar95: Ranges not available

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – 01Jan85: Ranges not available



Test Name: Sodium, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Sodium, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan80 – present



Test Name: Sodium, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms: Na **Reference Ranges:**

Sodium, Serum *mmol/L* (SI: mmol/L)

Performed at National Institutes of Health, Bethesda MD

Effective 01Aug90 - present: 135 - 144

Effective 01Dec88 - 31Jul90: $135 - 144 \, mEq/L$ (SI: mmol/L = 1 x mEq/L)

Effective 01Jan79 - 30Nov88: $137 - 145 \, mEq/L$



Test Name: Sodium, Urine Laboratory Medicine

Lab Area: Chemistry

Synonyms: Na **Reference Ranges:**

Sodium, Urine *mmol/24hr* (SI: $mmol/d = 1 \times mmol/24hr$) Performed at National Institutes of Health, Bethesda MD Effective 01Aug90 - present: Excretion 40 - 22

Random No ranges established

Effective 01Jun82 - 31Jul90: Excretion $40 - 220 \, mEq/24hr$



Test Name: Specific Gravity, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Specific Gravity, Serum

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – 02Nov86: 1.002 - 1.030



Test Name: Specific Gravity, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Specific Gravity, Urine

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: 1.002 - 1.035

Test Name: Standard Renal Clearance
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Inulin Clearance, Iothalamate, PAH, Filtration

Reference Ranges:

Standard Renal Clearance

Performed at Mayo Medical Labs, Rochester MN

Effective 06Sep02 – present:

Reference Values: GFR (glomerular filtration rate) and RPF (renal plasma flow) are age dependent. Normal values for GFR (iothalamate or inulin) are > 90 mL/min per 1.73 m 2 for 20-year-old persons, decreasing by 4 mL/decade. Normal values for RPF (para-aminohippuric acid -PAH) are > 448 mL/min per 1.73 m 2 (previously 400 mL/min per 1.73 m 2) for 20-year-old persons, decreasing by 35 mL/decade.

```
Inulin Clearance (Exogenous) mL/min^* (SI: mL/s = 0.00963 \text{ x mL/min})
20Y-29Y >90
30Y-39Y >86
40Y-49Y >82
50Y-59Y >78
60Y-69Y > 74
70Y-79Y > 70
80Y-89Y >66
90Y-99Y > 62
100Y-109Y >58
109Y-119Y >54
PAH Clearance, corrected mL/min^* (SI: mL/s = 0.00963 \text{ x mL/min})
20Y-29Y >448
30Y-39Y >413
40Y-49Y >378
50Y-59Y >343
60Y-69Y >308
70Y-79Y > 273
80Y-89Y >239
90Y-99Y >203
100Y-109Y > 168
110-119Y >133
Filtration Factor percent (SI: fraction = 0.01x percent)
18 - 22
```

```
Effective 08Mar95 – 05Sep02:
Inulin Clearance (Exogenous) mL/min* (SI: mL/s = 0.00963 x mL/min)
20Y-29Y 90 – 130
30Y-39Y 86 – 126
40Y-49Y 82 – 122
50Y-59Y 78 – 118
60Y-69Y 74 – 114
PAH Clearance, corrected mL/min* (SI: mL/s = 0.00963 x mL/min)
20Y-29Y 400 – 700
30Y-39Y 383 – 683
40Y-49Y 366 – 666
50Y-59Y 349 – 649
60Y-69Y 332 – 632
Filtration Factor percent (SI: fraction = 0.01x percent)
18 – 22
```

^{*} Corrected to 1.73 m² body surface area



Test Name: Sterile Fluid Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Synovial fluid

Reference Ranges:

Sterile Fluid Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Sterile Fluid Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Sterile Fluid Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Sterile Fluid Culture/Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Sterile Fluid Culture/Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Sterile Fluid Culture/Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Sterile Fluid Culture/Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Stool Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Stool Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Salmonella, Shigella, or Campylobacter isolated For information on Antibiotic Susceptibility on significant isolates, click <u>here</u>

Test Name: Streptococcal Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Dnase B, Antistreptolysin O, ASO, Anti

Dnase-B

Reference Ranges:

Streptococcal Antibody

Performed at Mayo Medical Labs, Rochester MN

Effective 05Jun02 – present:

ASO (Antistreptolysin O) *IU/mL* (SI: IU/mL)

1D-3Y <= 250

4Y-17Y <= 400

>=18Y <= 300

Anti-D-nase B *U/mL* (SI: U/mL)

1D-3Y <= 250

4Y-17Y <= 400

>=18Y <= 300

Effective 12Dec01 – 04Jun02:

ASO (Antistreptolysin O) units

1D-4Y <= 85

5Y-18Y <= 170

>=19Y <= 85

ANTI-D-nase B units

1D-4Y <= 60

5Y-18Y <= 170

>=19Y <= 85

Performed at National Institutes of Health, Bethesda MD

Effective 21Aug96 – 11Dec01:

ASO (Antistreptolysin O) *IU/mL* (SI: IU/mL)

 $1D-4Y \quad 0-99$

 $5Y-18Y \quad 0-249$

>=19Y 0-199

ANTI-D-nase B titer

 $1D-4Y \quad 0-60$

 $5Y-18Y \quad 0-170$

>=19Y 0-85

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – 13Aug96:

```
ASO (Antistreptolysin O) units

1D-4Y  1-85

5Y-17Y  1-170

>=18Y  1-85

ANTI-D-nase B units

1D-4Y  1-60

5Y-17Y  1-170

>=18Y  1-85
```

Performed at SmithKline Beecham, Van Nuys CA Effective 03Nov93 - 18Sep94: ANTI-D-nase B *titer* 1D-4Y <1:60 5Y-18Y <1:170 >=18Y <1:85

Elevated values for age are consistent with an antecedent infection by group A streptococci.



Test Name: Strongyloides Antibody **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Strongyloides Antibody

Performed at Center for Disease Control, Atlanta GA Effective 12Jun02 - present

Performed at Focus Technologies, Cypress CA Effective 01Sep90 - 11Jun02: Antibody not detected < 1.00 Antibody detected >= 1.00

Strongyloides Indirect Hemagglutination Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Substance P

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Substance P *pg/mL* (SI: ng/L = 1.0 x pg/mL) Performed at InterScience Institute, Inglewood CA Effective 10Jun98 - present:

 $\begin{array}{ll} \text{Male} & 88-488 \\ \text{Female} & 50-410 \end{array}$



Test Name: Sulfa Levels

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Test no longer available as Sulfa level. Order as Sulfamethoxazole.

Sulfa Levels

Performed at American Medical Labs, Chantilly VA

Effective until 08Mar99



Test Name: Sulfadiazine, Serum **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Azulfidine, Suladyne, Sulfasalazine

Reference Ranges:

Sulfadiazine, Serum $\mu g/mL$ ($\mu g/mL = mg/L$) Performed at Mayo Medical Labs, Rochester MN Effective 12Dec01 - present: Therapeutic 100 - 120 $\mu g/mL$ Toxic >=300 $\mu g/mL$

Following a typical oral dose of 2 g/day total, administered in two equal doses, the serum concentration peaks at or near 100 ug/mL in approximately 3-4 hours.

MIC of sulfadiazine is invariaby <25 ug/mL for susceptible organisms, whereas toxicity associated with sulfadiazine occurs with prolonged exposure to serum concentrations in excess of 125 ug/mL.



Test Name: Sulfamethoxazole **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Gantrisin

Reference Ranges:

Sulfamethoxazole $\mu g/mL$ (SI: mg/L = 1.0 x μ g/mL) Performed at Mayo Medical Labs, Rochester MN Effective 09Mar99 - present: Therapeutic 90 – 100

Toxic >=300

Performed at American Medical Labs, Chantilly VA Effective until 08 Mar00: No ranges available



Test Name: Sulfonamides **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Gantrisin

Reference Ranges:

Sulfonamides μ *g/mL* (SI: mg/L = 1.0 x μ g/mL) Performed at Mayo Medical Labs, Rochester MN Effective 06Mar99 - present: Therapeutic 90 – 100

Therapeutic 90 - 100Toxic $\Rightarrow 300$



Test Name: Synovial Fluid Cell Count and Diff

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Synovial Fluid Cell Count and Differential

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Cell Count:

WBC: 0-179/mm³ RBC: 0-1/mm³ Differential:

Neutrophils (including bands): 0-24 % Lymphocytes: Lymphocytes predominate

Other Cells: Monocytes/Histiocytes predominate.



Test Name: Syphilis IgG/IgM FTA-ABS, Serum

Department: Laboratory Medicine

Lab Area: Immunology

Synonyms: VDRL

Reference Ranges:

Syphilis IgG & IgM FTA-ABS (ordered if RPR is positive)

Performed at Focus Technologies, Cypress CA

Effective 02Feb99 – present:

Treponema Pallidum IgG Antibody: Non-reactive Treponema Pallidum IgM Antibody: Non-reactive

The Fluorescent Treponema Antibody Absorption IgM test (FTA-ABS-IgM) determines an IgM specific response to T. pallidum. A reactive (positive) result for FTA-ABS-IgM is indicative of a recent infection. A reactive result for FTA-ABS IgG only is indicative of past infection in adults, or transplacental transfer of maternal FTA-ABS IgG in newborns.

Syphilis FTA-ABS

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – 01Feb99: Nonreactive

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: Nonreactive

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: Nonreactive

VDRL

Performed at American Medical Labs, Chantilly VA Effective until 18May82: Nonreactive



Test Name: Syphilis Serology, CSF **Department:** Laboratory Medicine

Lab Area: Immunology

Synonyms: VDRL

Reference Ranges:

Syphilis Serology, CSF

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: Nonreactive



Test Name: T3

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Triiodothyronine

Reference Ranges:

T3 ng/dL (SI: nmol/L = 0.0154 x ng/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 17July2004 - present: 90 - 215

Effective 14May2004 - 16July2004: 100 - 215 Effective 13Oct99 - 13May2004: 82 - 179 Effective 11Mar98 - 12Oct99: 75 - 170 Effective 06Sep95 - 10Mar98: 75 - 153 Effective 18Sep85 - 05Sep95: 88 - 162 Effective 30Apr81 - 17Sep85: 111 - 199 Effective 01Jan79 - 29Apr81: 122 - 213



Test Name: T3, Free

Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Free T3 pg/dL (SI: pmol/L = 0.0154 x pg/dL)

Effective 12Apr95 – present: Reference Range 230 – 420

Effective 19Sep94 – 11Apr95: Reference Range 143 – 468

Effective 01Oct90 – 18Sep94: Reference Range 250 – 550

Effective 04Jan89 – 30Sep90: Reference Range 210 – 330



Test Name: T3, Free

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Free T3 pg/dL (SI: pmol/L = 0.0154 x pg/dL) Performed at Mayo Medical Labs, Rochester MN

Effective 12Apr95 – present: 230 – 420 Effective 19Sep94 – 11Apr95: 143 – 468

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Oct90 – 18Sep94: 250 – 550 Effective 04Jan89 – 30Sep90: 210 – 330



Test Name: T3, Reverse

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Reverse T3 ng/dL (SI: nmol/L = 0.0154 x ng/dL) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: 11.7 – 33.2 Results are for research use only.

Performed at SmithKline Beecham, Van Nuys CA

Effective 09Sep91 – 18Sep94: 2.6 – 18.9 Effective 25Mar88 – 08Sep91: 5.8 – 19.4



Test Name: T4

Department: Laboratory Medicine

Lab Area: Chemistry
Synonyms: Thyroxine

Reference Ranges:

T4 $\mu g/dL$ (SI: nmol/L = 12.9 x $\mu g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 13Oct99 – present: 4.5 – 12.5 Effective 11Mar98 – 12Oct99: 5.5 – 12.5 Effective 04Oct84 – 10Mar98: 5 – 10 Effective 08Jul82 – 03Oct84: 6 – 11 Effective 01Jan79 – 07Jul82: 4.7 – 11.1



Test Name: T4, Free

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: FT4, Thyroxin Free

Reference Ranges:

T4, Free ng/dL (SI: pmol/L = 12.9 x ng/dL)

Performed at the National Institutes of Health, Bethesda MD

Effective 10Dec03 - present: 18-150Y 0.8 - 1.9

Effective 14Feb01 – 09Dec03: 0.7 – 1.8 Effective 03Sep97 – 13Feb01: 0.9 – 1.6 Effective 20Jun85 – 02Sep97: 1.0 – 1.9

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jan79 - 19Jun85: 1.0 - 2.3



Test Name: T4, Free by Direct Dialysis **Department:** Laboratory Medicine Mayo Medical Labs

Synonyms:

Reference Ranges:

T4, Free by Direct Dialysis ng/dL (SI: pmol/L = 12.9 x ng/dL)

Performed at Mayo Medical Labs, Rochester MN

Effective 02Oct96 - present: 1.0 - 2.0

Performed at Endocrine Science Labs, Calabasas Hills CA

Effective 19Sep94 - 01Oct96: 0.8 - 2.3

T4, Free by Equilibrium Dialysis

Performed at SmithKline Beecham, Van Nuys CA

Effective 23Dec91 - 18Sep94: 0.9 - 2.0 Effective 25Mar88 - 22Dec91: 1.0 - 2.3



Test Name: Tacrolimus

Department: Laboratory Medicine

Lab Area: Chemistry **Synonyms:** FK-506, FK506

Reference Ranges:

Tacrolimus ng/mL (SI: $\mu g/L = 1.0 \text{ x ng/mL}$)

Performed at National Institutes of Health, Bethesda MD

Effective 06Mar99 – present:

When therapy is at steady state 3.0 - 8.0

Effective 14Jul99 – present:

Upon initiation of therapy (trough) 15.0 - 15.0

Reported acute levels 3.0 - 18.0

15.0 ng/mL is usual upon initiation of therapy (trough level) 3.0-18.0 ng/mL (acute)

Performed at Mayo Medical Labs, Rochester MN Effective 06Mar99 - 14Jul99: Steady state level 3.0 - 8.0



Test Name: Testosterone, Free & Total Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Testosterone, Free & Total

Total Testosterone ng/dL (SI: nmol/L = 0.0347 x ng/dL)

Performed at Mayo Medical Labs, Rochester MN

Effective 22Mar05 - present:

Performed at Mayo Medical Labs, Rochester MN

Units: ng/dL ng/dL

Age-adjusted ranges:

Age, yr (except 1st row)	Males	Females
0-5 months	75-400	20-80
0.5-9	<7-20	<7-20
10-11	<7-130	<7-44
12-13	<7-800	<7-75
14	<7-1,200	<7-75
15-16	100-1,200	<7-75
17-18	300-1,200	20-75
>=19	240-950	8-60

Tanner staged ranges*:

Tanner-Stage	Males	Females
1 (pre-pubertal)	<7-20	<7-20
2	8-66	<7-47
3	26-800	17-75
4	85-1200	20-75
5 (young adult)	300-950	12-60

^{*}Puberty onset (transition from Tanner stage 1 to Tanner stage 2) occurs for boys at a median age of 11.5 (+/-2) years and for girls at a median age of 10.5 (+/-2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. For boys there is no definite proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage 5 (adult) should be reached by age 18.

Since this test is sent out to Mayo Medical Labs the reference ranges for Total Testosterone are not the same as Totals done in-house.

```
Free Testosterone ng/dL (SI: nmol/L = 3.47 x ng/dL)
```

Performed at Mayo Medical Labs, Rochester MN

Effective 22Mar05 - present:

Male 9 - 30 Female 0.3 - 1.9

Total Testosterone ng/dL (SI: nmol/L = 0.0347 x ng/dL)

Effective 25Apr02 - 21Mar05:

Female 19Y-150Y 12 - 72

Effective 24Feb97 - 21Mar05:

Male & Female

1D-11M not established

1Y-9Y 0 - 39

Male

10Y-11Y 0 - 199

12Y-13Y 0 - 799

14Y 0 - 1199

15Y-16Y 100 - 1200

17Y-18Y 300 - 1200

19Y-40Y 300 - 950

41Y-150Y 240 - 950

Female

10Y-11Y 0 - 74

12Y-16Y 0 - 119

17Y-18Y 20 - 120

Since this test is sent out to Mayo Medical Labs the reference ranges for Total Testosterone are not the same as Totals done in-house.

Effective 24Feb97 - 24Apr02:

Female 19Y-150Y 20 - 80

Effective 19Sep94 - 23Feb97:

Male 300 - 1200

Female 20 - 80

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Oct87 - 18Sep94:

Female 25 - 95

Effective 03Sep90 - 18Sep94:

Male 225 - 900

Effective 01Oct87 - 02Sep90:

Male 300 - 1000

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Effective 01Jan79 - 30Sep87:

Male 300 - 1200 Female 30 - 95

Free Testosterone pg/mL (SI: pmol/L = 3.47 x pg/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - 21April05:

Male 90 - 300 Female 3 - 19

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Jan88 - 18Sep94:

Female 3.0 - 13.0

Effective 03Sep90 - 18Sep94:

Male 50 - 260

Effective 14Jan88 - 02Sep90:

Male&Female 80 - 280

% Free Testosterone *percent* (SI: fraction of total = 0.01 x percent)

Performed at Mayo Medical Labs, Rochester MN

Effective 14Oct94 - present:

Male 2.0 - 4.8

Female 0.9 - 3.8

Test Name: Testosterone, Total **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Testosterone, Total ng/dL (SI: nmol/L = 0.0347 x ng/dL) Performed at National Institutes of Health, Bethesda MD

Effective 10Dec03 - present:

Male:

20Y-49Y 262-1593 >=50Y 181-758

Female:

Ovulating <20-80 Postmenopausal <20-62

Effective 17Oct01 - 09Dec03:

Male:

20Y-49Y 286 - 1510 >=50Y 212 - 742

Female:

Ovulating 65 - 119 Oral Contraceptives 54 - 71 Postmenopausal 49 - 102

Performed at Mayo Medical Labs, Rochester MN

Effective 24Feb97 - 16Oct01:

Male:

0M-11M not established

10Y-11Y 0 - 199 12Y-13Y 0 - 799 14Y 0 - 1199 15Y-16Y 100 - 1200 17Y-18Y 300 - 1200 19Y-40Y 300 - 950 >41Y 240 - 950

Female:

0M-11M not established

10Y-11Y 0 - 74 12Y-16Y 0 - 119 17Y-18Y 20 - 120 >18Y 20 - 80 Effective 19Sep94 - 23Feb97:

Male 300 - 1200 Female 20 - 80

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Oct87 - 18Sep94:

Male 225 - 900 Female 25 - 95

Effective 01Oct87 - 02Sep90:

Male 300 - 1000

Effective 01Jan79 - 30Sep87:

Male 300 - 1200 Female 30 - 95



Test Name: Tetanus Toxoid IgG Antibody

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Tetanus Antitoxoid

Reference Ranges:

Tetanus Toxoid IgG Antibody IU/mL (SI: $kU/L = 1 \times IU/mL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 15Oct02 - present: >=0.16

Interpretation:

The assay is intended for the assessment of an antibody response to tetanus toxoid vaccine. Results greater than or equal to 0.16 IU/mL suggest a vaccine response.

Effective 06Mar02 - 14Oct02

Interpretation:

The assay is intended for the assessment of an antibody response to tetanus toxoid vaccine. Results between 0.01 IU/mL and the highest standard which is 7.0 IU/mL are considered a positive response to the vaccine. Results reported as <0.01 IU/mL indicate no response to the vaccine.

Performed at Focus Technologies, Cypress CA

Effective 19Sep94 - 05Mar02:

Protective level of AB >= 0.5 U/mLIndeterminant for protective AB 0.05 - 0.49 U/mLAntibody not detected < 0.05 U/mL

Performed at SmithKline Beecham, Van Nuys CA

Effective 22Jul91 - 18Sep94: >0.10 IU/mL

Protected > 0.10 IU/mL

Test Name: Theophylline

Department: Laboratory Medicine

Lab Area: Chemistry **Synonyms:** Aminophylline

Reference Ranges:

NO LONGER OFFERED AS OF MARCH 12, 2003

Theophylline mg/L (SI: $\mu mol/L = 5.55 \text{ x mg/L}$) (mg/L = $\mu g/mL$)

Performed at National Institutes of Health, Bethesda MD

Effective 02Apr92 - 11Mar03:

Adult, Therapeutic:

Bronchodilator 8-20

Premature Apnea 6-13

Toxic >20

Effective 02Dec82 - 01Apr92

Therapeutic 10-20

Toxic >20

Performed at MetPath Labs, Rockville MD

Effective until 02Dec82:

Therapeutic 10-20Toxic >20



Test Name: Thiocyanate

Department:Laboratory MedicineLab Area:Quest DiagnosticsSynonyms:Sodium Nitroprusside

Reference Ranges:

Thiocyanate $\mu g/mL$ (SI: $\mu mol/L = 17.2 \text{ x } \mu g/mL$)

Performed at Quest Diagnostics, Baltimore MD

Effective 13Nov02 – present:

Normals:

Non-smokers 1-4Smokers 3-12

Nitroprusside therapeutic range: 6-29

Performed at American Medical Labs, Chantilly VA

Effective 20Jan99 – 12Nov02:

Therapeutic unexposed nonsmokers 1-4Therapeutic unexposed smokers 3-12

Nitroprusside Therapy:

Therapeutic 3-5Slight symptoms 50-100More serious symptoms 100-200Life threatening intoxication >200

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 – 19Jan99:

Normal Concentration 4-20Toxic >=60

Performed at American Medical Labs, Chantilly VA

Effective until 30May95:

Therapeutic - Nonsmoker 1-4Therapeutic - Smoker 3-12Therapeutic after nitroprusside infusion: >6-29



Test Name: Throat Culture Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Throat Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present:

No growth, No group A streptococcus

For OP 4-MH service: No beta Streptococcus isolated



Test Name: Thrombin Time Laboratory Medicine

Lab Area: Hematology

Synonyms: ⊤ **Reference Ranges:**

Thrombin Time seconds

Performed at National Institutes of Health, Bethesda MD Effective 20Jan99 – present: Automated 15.6 - 24.4 Effective 06Mar99 - present: Fibrometer 15.1 - 21.4 Effective 01Jan79 - 19Jan99: Automated 28 - 35



Test Name: Thrombin Time Laboratory Medicine

Lab Area: Hematology

Synonyms: ⊤ **Reference Ranges:**

Thrombin Time (sec.):

Automated:

Effective date: 20 Jan 99 - present Reference range: 15.6 - 24.4

Fibrometer:

Effective date: 06 Mar 99 - present

Reference range: 15.1 - 21.4



Test Name: Thyroglobulin Laboratory Medicine

Lab Area: Chemistry Synonyms: HTG

Reference Ranges:

Thyroglobulin ng/mL (SI: $\mu g/L = 1 \times ng/mL$)

Performed at National Institutes of Health, Bethesda MD

Effective 10Dec03 – present: 18-150Y 2-60

Anti-Thyroglobulin *IU/mL* (SI: IU/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 10Dec03 – present: 18-150Y 0-2

Anti-thyroglobulin is performed with Thyroglobulin test and if significant is noted on the report.

If Anti-thyroglobulin is greater than 2 IU/mL, interpret Thyroglobulin cautiously.

Effective 13Oct99 – 09Dec03: 1.6 – 59.9

Performed at Mayo Medical Labs, Rochester MN

Effective 20Jan99 - 12Oct99: 0.0 - 55.0

Effective 12Aug96 – 19Jan99:

Normal thyroid 0.0 - 59.4Athyroidic 0.0 - 4.9Effective 19Sep94 - 11Aug96: Normal thyroid 3 - 42Athyroidic 0 - 5

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Jan88 - 18Sep94: 0 - 60

Anti-Thyroglobulin *IU/mL* (SI: IU/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 13Oct99 – 09Dec03: 0.0 – 39.9

Anti-thyroglobulin is performed with Thyroglobulin test and if significant is noted on the report.

If Anti-thyroglobulin is greater than 40.0 IU/mL, interpret Thyroglobulin cautiously.

Test Name: Thyroid Screen Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Thyroid Screen

Performed at National Institutes of Health, Bethesda MD Effective 10Dec03 – present:

TSH: $0.40-4.00 \mu IU/mL$ (SI: mU/L = 1 x μ IU/mL) Free T4: 0.8-1.9 ng/dL (SI: pmol/L = 12.9 x ng/dL)

Effective 13Oct99 – 09Dec03:

TSH: $0.40-4.00 \mu IU/mL$ (SI: mU/L = $1.0 \times \mu IU/mL$) Free T4: $0.7-1.8 \, ng/dL$ (SI: pmol/L = $12.9 \times ng/dL$)

TSH $\mu IU/mL$ (SI: mU/L = 1 x μ IU/mL) Effective 13Oct99 – present: 0.40-4.00 Effective 03Sep97 – 12Oct99: 0.43 – 4.60 Effective 22Jun94 – 02Sep97: 0.42 – 4.40 Effective 18Mar87 - 23Jun94: 0.4 – 4.6 Effective 16May85 - 17Mar87: 0.5 – 4.6 Effective 01Jan79 - 15May85: 0.0 – 3.9

Free T4 $\mu g/dL$ (SI: pmol/L = 12.9 x ng/dL) Effective 14Feb01 – present: 0.7 – 1.8 Effective 03Sep97 – 13Feb01: 0.9 – 1.6 Effective 20Jun85 – 02Sep97: 1.0 – 1.9

Performed at SmithKline Beecham, Van Nuys CA Effective 01Jan79 – 19Jun85: 1.0 – 2.3



Test Name: Thyroid Stimulating Hormone

Department: Laboratory Medicine

Lab Area: Chemistry
Synonyms: TSH

Synonyms: TS **Reference Ranges:**

Thyroid Stimulating Hormone $\mu IU/mL$ (SI: mU/L = 1 x μ IU/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 13Oct99 – present: 0.40 – 4.00 Effective 03Sep97 – 12Oct99: 0.43 – 4.60 Effective 22Jun94 – 02Sep97: 0.42 – 4.40 Effective 18Mar87 – 23Jun94: 0.4 – 4.6

Effective 16May85 – 17Mar87: 0.5 – 4.6 Effective 01Jan79 – 15May85: 0.0 – 3.9



Test Name: Thyroid Stimulating Immunoglobulin

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: TSIG

Reference Ranges:

Thyroid Stimulating Immunoglobulin TSI Index

Performed at Mayo Medical Labs, Rochester MN Effective 30Sep03 – present:

>=16 years:

Negative <=1.3 Positive >=1.4

0-15Y not established

Effective 19Sep94 – 29Sep03:

Negative 0-1.3Indeterminate 1.4-1.8Positive 1.9-99.9

Performed at SmithKline Beecham, Van Nuys CA Effective 01Oct87 - 18Sep94:

 $0 - 1.9 \mu IU TSH eq/mL$ (SI: mU TSH eq/L = 1 x μIU TSH eq/mL)



Test Name: Thyrotropin Binding Inhibitory

Immunoglobulin

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: TBII

Reference Ranges:

Thyrotropin Binding Inhibitory Immunoglobulin % inhib

(SI: frac inh = $0.01 \times \%$ inhib)

Performed at Quest Diagnostics/Nichols Institute, San Juan Capistrano CA

Effective 26Jun04 - present: 0 - 15.9Effective 09Jan97 - 25Jun04: 0 - 9.9



Test Name: Thyroxine Binding Globulin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: TBG

Reference Ranges:

Thyroxine Binding Globulin $\mu g/mL$ (SI: $\mu mol/L = 1.29 \text{ x } \mu g/mL$)

Performed at National Institutes of Health, Bethesda MD

Effective 13Oct99 - present: 13 - 39Effective 04Oct95 - 12Oct99: 12 - 30Effective 01Jan79 - 03Oct95: 12 - 28



Test Name: TIBC

Department: Laboratory Medicine

Lab Area:

Synonyms: Total Iron Binding Capacity

Reference Ranges:

Test no longer performed. Order Iron and Transferrin. Also TIBC = 1.40 x Transferrin.

Total Iron Binding Capacity $\mu g/dL$ (SI: $\mu mol/L = 0.179 \text{ x } \mu g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 - 01Oct91: 250 - 400



Test Name: Tissue Plasminogen Activator Antigen

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: TPA, TPAK

Reference Ranges:

Tissue Plasminogen Activator Antigen ng/mL

Performed at Esoterix Coagulation, Aurora CO Effective 08Jan03 – present: 0.5 - 14.0 Reference ranges represent adult values.

Test Name: Tobramycin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Tobramycin mg/L (SI: μ mol/L = 2.14 x mg/L)

Performed at National Institutes of Health, Bethesda MD

Effective 02Apr92 - present:

Therapeutic:

Pre <2

Post 5-10

Toxic:

Post >10

Effective until 01Apr92:

Therapeutic:

Pre <2

Post 4-10

Toxic:

Post >10



Test Name: Tocainide

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Tocainide mg/L (SI: $\mu mol/L = 5.20 \text{ x mg/L}) (mg/L = \mu g/mL)$

Performed at Mayo Medical Labs, Rochester MN

Effective 31May95 – present:

Therapeutic 5-12Toxic >=15

Performed at American Medical Labs, Chantilly VA

Effective 02Apr92 - 30May95:

Therapeutic 4-10Toxic not defined

Performed at MetPath Labs, Rockville MD

Effective until 01Apr92:

Therapeutic 4-10 Toxic >12



Test Name: Total Iron Binding Capacity

Department: Laboratory Medicine

Lab Area: Chemistry
Synonyms: TIBC

Reference Ranges:

Test no longer performed. Order Iron and Transferrin. Also TIBC = 1.40 x Transferrin.

Total Iron Binding Capacity $\mu g/dL$ (SI: $\mu mol/L = 0.179 \text{ x } \mu g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 - 01Oct91: 250 - 400



Test Name: Total STR Chimerism Laboratory Medicine

Lab Area: Hematology

Synonyms: Nonseparated Short Tandem Repeat

Chimerism

Reference Ranges:

Total Short Tandem Repeat Chimerism

Performed at National Institutes of Health, Bethesda MD

Effective 13Nov02 - present: 0% Chimerism

Normal individuals have no chimerism in blood leukocytes. Leukocytes from transplanted patients have a varying components of donor derived cells.



Test Name: Toxicology Screen, Serum
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs

Synonyms: Drug screen, Acetaminophen, Acetohexamide,

Caffeine, Acetylsalicylate, Chlorpropamide,

Nicotine, Diclofenac, Tolazamide,

Theophylline, Fenoprofen, Tolbutamide, Flurbiprofen, Ibuprofen, Cyclobenzaprine, Indomethacin, Amitriptyline, Disopyramide, Ketoprofen, Bupropion, Diltiazem, Ketorolac, Chlordiazepoxide, Lidocaine, Midazolam, Clomipramine, Metoclopramide, Naproxen, Clozapine, Metronidazole, Phenylbutazone,

Desalkyl Flurazepam, Pentoxyfilline,

Propoxyphene, Desipramine,

Phenyltoloxamine, Salicylate, Diazepam,

Quinidine, Sulindac, Fluoxetine, SulfadiazineTolmetin, Flurazepam,

Sulfamethoxazole, Tramadol, Imipramine, Sulfapyridine, Lorazepam, Sulfisoxazole, Maprotiline, Ticlopidine, Carbamazepine, Mirtazapine, Trimethoprim, Ethosuximide, Nordiazepam, Verapamil, Felbamate, Nortriptyline, Lamotrigine, Oxazepam, Methsuximide, Sertraline, Phenytoin, Temazepam, Primidone, Trazodone, Topiramate, Trimipramine, Valproic Acid. Venlafaxine, Zolpidem, Allobarbital, Amobarbital, Carisoprodol, Aprobarbital, Diphenhydramine, Barbital, Doxylamine, Butabarbital, Ethchlorvynol, Butalbital, Glutethimide, Mephobarbital, Hydroxyzine, Metharbital, Meprobamate, Pentobarbital, Methyprylon, Phenobarbital, Thiopental

Reference Ranges:

Toxicology Screen, Serum

Performed at Mayo Medical Labs, Rochester MN No drugs detected; if positive, drugs are quanitated with reference range.

Performed at American Medical Labs, Chantilly VA Effective 11Oct91 - 14Mar95:

Negatives reported as no drugs detected. Positives quantified.

Performed at MetPath Labs, Rockville MD Effective until 10Oct91:

Drugs reported as "dectected" or "not detectable"



Test Name: Toxocara Canis Antibody, Serum

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Visceral Larva Migrans

Reference Ranges:

Toxocara Canis Antibody, Serum

Performed at Center for Disease Control, Atlanta GA Effective 12Jun02 - present: Negative

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 11Jun02: Negative

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: ELISA, Bent Flocculation, and Indrect Hemagglutination

Performed at American Medical Labs, Chantilly VA Effective 01Mar86 - 31Aug90: ELISA, Bent Flocculation, and Indrect Hemagglutination

Performed at Center for Disease Control, Atlanta GA Effective until 01Mar86: No data available



Test Name: Toxoplasma Antibodies
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Toxo IgG, IgM

Reference Ranges:

No longer offered as of 16Feb05. Order Mayo test instead.

Toxoplasma Antibody Toxoplasma Antibodies

Performed at Palo Alto Institute, Palo Alto CA

Effective 26Jan98 - 16Feb05:

IgG - Dye test: Negative: <1:16

IgM -ELISA

Negative: 0.0 - 1.6 Equivocal: 1.7 - 1.9 Positive: >= 2.0

Effective 09May95 - 25Jan98:

IgG:

no previous infection (except for ocular) <1:16 titer prevalent in general population 1:16 - 1:256 titer suggests recent infection >1:256 titer indicates active infection >1:1024 titer

Rising titer of greatest significance

IgM:

indicates active infection (adults) >=1:64 titer

newborns: any titer is significant indicating active infection

Effective 02Feb94 - 08May95: 0 - 0.9 units

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 01Feb94: IFA; no ranges available

Performed at American Medical Labs, Chantilly VA Effective 01Mar86 - 31Aug90: IFA; no ranges available

Performed at Center for Disease Control, Atlanta GA Effective until 01Mar86: Indirect Flourescence; no ranges available



Test Name: Toxoplasma Antibody, IgG, Serum (Mayo)

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Gondii, Toxoplasmosis

Reference Ranges:

Toxoplasma Ab, IgG, Serum (Mayo) IU/mL

Performed at Mayo Medical Labs, Rochester MN Effective 11Feb05 – present:

<4 (negative)

4-7 (equivocal)

>=8 (positive)



Test Name: Toxoplasma Antibody, IgM, Serum (Mayo)

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Gondii, Toxoplasmosis

Reference Ranges:

Toxoplasma Ab, IgM, Serum (Mayo) IU/mL

Performed at Mayo Medical Labs, Rochester MN

Effective 11Feb05 – present:

< 0.55 (negative)

>=0.55 – <0.65 (equivocal)

>=0.65 (positive)



Test Name: Tracheal Asp/ Transtracheal Culture/ Gram

Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Tracheal Asp/ Transtracheal Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present: No WBCs, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates,

click here



Test Name: Trichinella Antibody
Department: Lab Area: Mayo Medical Labs
Synonyms: Trichinosis Spiralis

Reference Ranges:

Trichinella Antibody

Performed at Center for Disease Control, Atlanta GA Effective 12Jun02 - present: Negative

Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 - 11Jun02: Latex Agglutination; negative

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 19Sep94: Latex Agglutination, ID; negative

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: Negative



Test Name: Trichomonas Wet Mount **Department:** Laboratory Medicine

Lab Area: Microbiology **Synonyms:** Trichomonas

Reference Ranges:

Trichomonas Wet Mount

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Trichomonas vaginalis trophozoites seen



Test Name: Trichomonas Wet Mount **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Trichomonas Wet Mount

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No Trichomonas vaginalis trophozoites seen



Test Name: Triglycerides, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Triglycerides, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 23Oct03 – present: >110 mg/dL chylous effusion 60-110 mg/dL indeterminate <60 mg/dL non-chylous fluid

Effective 01Jan79 – 22Oct03: No range available

Test Name: Triglycerides, Serum Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Triglycerides mg/dL (SI: mmol/L = 0.0113 x mg/dL)

Performed at the National Institutes of Health, Bethesda MD

Effective 13Jun01 – present:

ATP III adopts the following classification for serum triglycerides:

Normal <150Borderline high risk 150 - 199High risk 200 - 499Very high risk >=500

Effective 01Jan79 - 12Jun01:

0Y-9Y not establ.

 $10Y-29Y \quad 10-140$

 $30Y-39Y \quad 10-150$

40Y-49Y 10-160

50Y-59Y 10 - 190

>59Y not establ.



Test Name: Troponin I

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Troponin I ng/mL (SI: $\mu g/L = 1.0 \text{ x ng/mL}$)

Performed at National Institutes of Health, Bethesda MD

Effective 11Feb05 – present: 0.0 - 0.5

Effective 06Mar99 - 10Feb05: 0.0 - 2.0



Test Name: Troponin T

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Troponin T ng/mL (SI: $\mu g/L = 1 \times ng/mL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 14May03 - present: 0.00 - 0.03

Interpretation:

Troponin T values >0.03 ng/mL are abnormal and a prognostic sign in patients with ischemic heart disease.

Performed at Mayo Medical Labs, Rochester MN

Effective 15Aug00 -present: 0.00 - 0.10

Performed at Specialty Labs, Santa Monica CA

Effective 09Jun99 - 14Aug00: 0.00 - 0.09

Interpretation:

Troponin T values >0.10 ng/mL are abnormal and a prognostic sign in patients with ischemic heart disease.



Test Name: Trypsin, Feces **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Trypsin, Feces titer (SI: titer)

Performed at ARUP, Salt Lake City UT

Effective 04Jan02 – present:

Normal >=1:96 Abnormal <1:96

Performed at Quest/Nichols Institute, San Juan Capistrano CA

Effective 10May01 – 03Jan02:

Normal activity at >=1:10 dilution factor

Effective 15Mar95 – 09May01:

Normal >8.4 U/g (SI: μ g tryp/g = 4.762 x U/g)

Pathologic <4.2 U/g

Further investigation needed 4.2 - 8.4 U/g

Peformed at American Medical Labs, Chantilly VA

Effective 13Jan93 - 14Mar95:

<4Y >=1:96

>=4Y not established

Cystic Fibrosis <1:96

Performed at SmithKline Beecham, Van Nuys CA

Effective 22Jul92 - 12Jan93:

Infants <1Y >1:96 Child >1Y >1:48 Child with Cystic Fib. <1:12

Adult not established



Test Name: Trypsin, Fluid Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Trypsin, Fluid *titer* (SI: titer)

Performed at ARUP, Salt Lake City UT

Effective 04Jan02 – present:

Normal >=1:96 Abnormal <1:96

Performed at Quest/Nichols Institute, San Juan Capistrano CA

Effective 10May01 – 03Jan02:

Normal activity at >=1:10 dilution factor

Effective 15Mar95 – 09May01:

Normal >8.4 U/g (SI: μ g tryp/g = 4.762 x U/g)

Pathologic <4.2 U/g

Further investigation needed 4.2 - 8.4 U/g

Peformed at American Medical Labs, Chantilly VA

Effective 13Jan93 - 14Mar95:

<4Y >=1:96

>=4Y not established

Cystic Fibrosis <1:96

Performed at SmithKline Beecham, Van Nuys CA

Effective 22Jul92 - 12Jan93:

Infants <1Y >1:96 Child >1Y >1:48 Child with Cystic Fib. <1:12

Adult not established



Test Name: Tryptase

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: Mast Cell

Reference Ranges:

Tryptase ng/mL (SI: $\mu g/L = 1 \times ng/mL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 15Sep99 -present: 0.00 - 11.49

Results for research use only.



Test Name: Tularemia Antibody
Department: Lab Area: Mayo Medical Labs
Synonyms: Francisella Ab

Reference Ranges:

Tularemia Antibody titer (SI: titer)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present: <1:40

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 - 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective until 31Aug90: No ranges available



Test Name: Typhus Murine Antibody
Department: Laboratory Medicine
Lab Area: Mayo Medical Labs
Synonyms: Rickettsial Ab

Reference Ranges:

Discontinued at Mayo on August 3, 2004 - Refer to Rickettsial Ab Panel test for new information

Typhus Murine Antibody titer

Performed at Mayo Medical Labs, Rochester MN
Effective 19Sep94 – 02Aug04: No antibody detected at <1:32
Detectable antibody in a single serum specimen indicates exposure to Rickettsia typhi.
A fourfold or greater rise in paired sera IgG titer indicates recent infection.

Performed at SmithKline Beecham, Van Nuys CA Effective 01Sep90 – 18Sep94: No ranges available

Performed at American Medical Labs, Chantilly VA Effective 02Mar86 – 31Aug90: No ranges available

Performed at Center for Disease Control, Atlanta GA Effective until 01Mar86: No ranges available



Test Name: UA, Reagent Strip Laboratory Medicine

Lab Area: Chemistry **Synonyms:** Urinalysis

Reference Ranges:

Urinalysis

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Protein = Negative Glucose = Negative Ketones = Negative Negative Hemoglobin = Bilrubin = Negative Urobilinogen = Negative Leukocyte Esterase = Negative Nitrite = Negative = Hg 5-8 (fasting) Specific Gravity = 1.002-1.035



Test Name: Unsaturated Iron Binding Capacity

Department: Laboratory Medicine

Lab Area:

Synonyms: UIBC **Reference Ranges:**

Test no longer performed

Unsaturated Iron Binding Capacity µg/dL

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – 01Apr85: 150 - 250



Test Name: Urea Nitrogen, Fluid Laboratory Medicine

Lab Area: Chemistry Synonyms: BUN

Reference Ranges:

Urea Nitrogen, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan80 – present: No ranges available



Test Name: Urea Nitrogen, Serum **Department:** Laboratory Medicine

Lab Area: Chemistry Synonyms: BUN

Reference Ranges:

Urea Nitrogen, Serum mg/dL (SI: mmol/L = 0.357 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 - present: 8 - 22

Effective 01Jan79 - 30Nov88:

Male 9-23Female 7-20



Test Name: Urea Nitrogen, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry
Synonyms: BUN, UUN

Reference Ranges:

Urea Nitrogen, Urine g/24hr (SI: mol urea/d = 0.0357 x g/24hr)

Performed at National Institutes of Health, Bethesda MD

Effective 01Jun82 – present:

Excretion 12-20

Random: not established

Test Name: Uric Acid

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Uric Acid mg/dL (SI: mmol/L = 0.059 x mg/dL)

Performed at National Institutes of Health, Bethesda MD

Effective 01Dec88 - present:

Male 3.7 - 8.6Female 2.4 - 5.8

Effective 01Jan79 - 30Nov88:

Male 4.3 - 8.5Female 2.8 - 8.3



Test Name: Uric Acid, Fluid Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Uric Acid, Fluid

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: No ranges available



Test Name: Uric Acid, Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Uric Acid, Urine g/24hr (SI: mmol/d = 5.9 x g/24hr) Performed at National Institutes of Health, Bethesda MD Effective 01Jun82 - present: Excretion 0.25 - 0.75



Test Name: Urinalysis (includes microscopic)

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: UA **Reference Ranges:**

Urinalysis

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present

Protein = Negative Negative Glucose = Ketones = Negative Hemoglobin = Negative Bilrubin = Negative Urobilinogen = Negative Leukocyte Esterase = Negative Nitrite = Negative = Hg 5-8 (fasting) 1.002-1.035 Specific Gravity = 0 - 3/HPF RBC's WBC's 0 - 5/HPF



Test Name: Urine Culture **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Urine Culture

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen. Culture: Less than 1000 col/mL or no growth.

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Urobilinogen, Feces **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Urobilinogen, Feces

Performed at Mayo Medical Labs, Rochester MN Effective 15Mar95 - 21Jun00

Performed at American Medical Labs, Chantilly VA Effective 17Mar93 - 14Mar95

Performed at SmithKline Beecham, Van Nuys CA Effective until 06Jan93



Test Name: Urobilinogen, Feces **Department:** Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

OBSOLETE 6/12/2000 - Test no longer performed

Urobilinogen, feces

Performed at Mayo Medical Labs, Rochester MN

Effective 15Mar95 - 12Jun00: $50 - 300 \, mg/24hr$ (SI: $\mu \text{mol/d} = 1.69 \, \text{x mg}/24hr$)

Performed at American Medical Labs, Chantilly VA

Effective 17Mar93 - 14Mar95: $75 - 350 \, mg/100g$ (SI: EU/kg = $10 \, x \, EU/kg$)

Performed at MetPath Labs, Rockville MD

Effective 14Nov85 - 16Mar93: 75 - 350 *EU/100g* Effective 01Jan79 - 13Nov85: 100 - 400 *EU/100g*



Test Name: Valproic Acid

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Valproic Acid mg/L (SI: $\mu mol/L = 6.93 \text{ x mg/L}) (mg/L = \mu g/mL)$

Performed at National Institutes of Health, Bethesda MD

Effective 02Apr92 - present:

Therapeutic 50 - 100Toxic >100

Effective until 01Apr92:

Therapeutic $50 - 100 \mu g/mL$ Toxic $> 100 \mu g/mL$



Test Name: Valproic Acid, Free and Total

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Valproic Acid, Free and Total mg/L (SI: μ mol/L = 6.93 x mg/L)

Performed at Mayo Medical Labs, Rochester MN

Effective 22Jul98 – present:

Valproic Acid, Free

Therapeutic 4-15

Toxic >15

Valproic Acid, Total

Therapeutic 40 (trough) - 100 (peak)

Toxic >120

This test is sent out to a referral laboratory and the therapeutic and toxic ranges for Total Valproic Acid are not the same as Total Valproic Acid done in-house at NIH.

Effective 19Sep94 – 21Jul98:

Free Valproic Acid

Therapeutic 6-20

Toxic >=40

Performed at SmithKline Beecham, Van Nuys CA

Effective 17Mar88 - 18Sep94:

Free Valproic Acid

Therapeutic (Normal Antiepileptic) 5 - 10

Toxic not available

Performed at MetPath Labs, Rockville MD

Effective until 16Mar88: No ranges available

Test Name: Vancomycin

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Vancomycin mg/L (SI: μ mol/L = 0.69 x mg/L) (mg/L = μ g/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 02Apr92 - present:

Therapeutic

Pre 5 - 10

Post 20 - 40

Toxic

Pre >15

Post >80-100

Effective until 01Apr92:

Therapeutic

Pre 5 - 10

Post 20 - 40

Toxic

Pre >15

Post >50



Test Name: VanillyImandelic Acid Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms: VMA **Reference Ranges:**

Vanillylmandelic Acid mg/24hr (SI: $\mu mol/d = 5.05 \text{ x mg}/24hr$)

Performed at Mayo Medical Labs, Rochester MN Effective 10Jul95 – present: Adults 0.0 – 7.9

Effective 19Sep94 – present:

Children $\mu g/mg \ creat$ (SI: mmol/mol creat = 0.571 x $\mu g/mg \ creat$)

<1Y 0-26.9 >=1Y 0-17.9 2-4Y 0-12.9 5-9Y 0-8.410-14Y 0-6.9

Effective 19Sep94 - 09Jul95: Adults 0 - 8.9

Performed at SmithKline Beecham, Van Nuys CA

Effective 20May91 – 18Sep94: 2 – 10 Effective 01Jul85 – 19May91: 2.2 – 10 Effective 01Jan79 – 30Jun85: 0.7 – 6.8



Test Name: Varicella-Zoster Virus Antibodies

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: VZV **Reference Ranges:**

Varicella-Zoster Virus Antibodies, IgG and IgM

Performed at Mayo Medical Labs, Rochester MN

Effective 29Nov99 - present:

IgG antibodies (ELISA) reported as positive, negative or equivocal.

IgM antibodies (IFA) reported as positive or negative

Interpretation:

Samples with negative IgG and IgM results indicate nonimmunity. The presence of demonstrable IgG in the absence of IgM generally indicates past exposure and immunity to VZV infection. IgG and IgM positive results indicate recent infection. An equivocal result indicates the need for retesting of a new specimen after 1-2 weeks.

Effective 19Sep94 - 28Nov99:

Nonimmune or no antibody detected:

IgG <1:10 titer

IgM <1:10 titer

borderline immunity:

IgG 1:10 titer

IgM <1:10 titer

indicates immunity:

IgG >= 1:40 titer

IgM <1:10 titer

suggests recent infection:

IgG >= 1:10 titer

IgM >= 1:10 titer

suggests past infection:

IgG >= 1:10 titer

IgM <1:10 titer

Performed at SmithKline Beecham, Van Nuys CA Effective until 18Sep94: No ranges available



Test Name: Varicella -Zoster Virus PCR

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** VZV-PCR

Reference Ranges:

Varicella-Zoster Virus PCR

Performed at National Institutes of Health, Bethesda MD Effective 01Feb00 – present: Negative for Varicella-zoster virus by PCR.

Performed at Mayo Medical Labs, Rochester MN Effective 21Aug96 – 31Jan00



Test Name: Varicella Zoster- DFA Laboratory Medicine

Lab Area: Microbiology **Synonyms:** VZV-DFA

Reference Ranges:

Varicella Zoster- DFA

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: Negative for VZV by DFA



Test Name: Varicella Zoster Virus- DFA

Department: Laboratory Medicine

Lab Area: Microbiology **Synonyms:** VZV-DFA

Reference Ranges:

Varicella Zoster- DFA

Performed at National Institutes of Health, Bethesda MD Effective 01Jan79 – present: Negative for VZV by DFA



Test Name: Varicella Zoster Virus Culture

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms: VZV **Reference Ranges:**

Varicella Zoster Virus Culture

Performed at National Institutes of Health, Bethesda MD

Effective 02Nov91 – present: No virus isolated

Performed at American Medical Labs, Chantilly VA

Effective until 01Nov91: Negative



Test Name: Vasoactive Intestinal Polypeptide

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: VIP **Reference Ranges:**

Vasoactive Intestinal Polypeptide pg/mL (SI: ng/L = 1 x pg/mL)

Performed at Mayo Medical Labs, Rochester MN

Effective 10Jun98 - present: 0 - 74

Test Name: Verapamil and Norverapamil

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Norverapamil

Reference Ranges:

Verapamil and Norverapamil $\mu g/L$ (SI: nmol/L = 2.20 x $\mu g/L$)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – present:

Verapamil

Therapeutic 50 - 200Toxic $\Rightarrow =400$

Norverapamil

Therapeutic 50 - 200Toxic >=400

Performed at SmithKline Beecham, Van Nuys CA

Effective 02Apr92 - 18Sep94:

Verapamil

Therapeutic 100 – 500 Toxic not defined

Norverapamil

Therapeutic no data available Toxic no data available

Effective until 01Apr92:

Verapamil

Therapeutic 50-200Toxic >250

Norverapamil

Therapeutic no data available no data available



Test Name: Very Long Chain Fatty Acids

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

No longer performed as a separate test. Order Peroxisomal Panel.

Very Long Chain Fatty Acids µmol/L

Effective 28Oct96 – 01Feb97:

C22:0 0 - 96.3

C24:0 0 - 91.4

C26:0 0 - 1.30

 $C24:0/C22:0 \quad 0-1.39 \ ratio$

C26:0/C22:0 0 – 0.023 ratio



Test Name: Viral Sensitivities **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Test performed by approval only **Viral Sensitivities**Performed at Viromed Laboratories, Minnetonka MN Effective 19Dec94 – present



Test Name: Viscosity, Serum **Department:** Laboratory Medicine

Lab Area: Hematology

Synonyms:

Reference Ranges:

Viscosity, Serum

Performed at National Institutes of Health, Bethesda MD

Effective 31Jul89 – present: 1.4 - 1.8



Test Name: Vitamin A and Vitamin E Panel

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Retinol $\mu g/dL$ (SI: $\mu mol/L = 0.0349 \text{ x } \mu g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 15Sep99 - present: 36 - 120

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 36 - 120

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Apr85 – 18Sep94: 30 - 95 Effective 01Jan79 – 31Mar85: 65 - 275

Esterfied Retinol

Performed at Mayo Medical Labs, Rochester MN

Effective 06Mar99 - present: 0 - 1



Test Name: Vitamin A and Vitamin E Panel

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Vitamin A and Vitamin E

Retinol $\mu g/dL$ (SI: $\mu mol/L = 0.0349 \text{ x } \mu g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 15Sep99 - present: 36 - 120

Vitamin E mg/L (SI: μ mol/L = 2.32 x mg/L)

Performed at National Institutes of Health, Bethesda MD

Effective 14Sep99 – present:

20-150Y: 5.5-17

1-19Y: Not established

Retinol $\mu g/dL$ (SI: $\mu mol/L = 0.0349 \text{ x } \mu g/dL$)

Performed at National Institutes of Health, Bethesda MD

Effective 15Sep99 - present: 36 - 120

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 36 - 120

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Apr85 – 18Sep94: 30 - 95

Effective 01Jan79 – 31Mar85: 65 - 275 *IU/dL*

Esterfied Retinol

Performed at Mayo Medical Labs, Rochester MN

Effective 06Mar99 - present: 0 - 1

Vitamin E $\mu g/mL$ (SI: $\mu mol/L = 2.32 \text{ x } \mu g/mL$)

Performed at National Institutes of Health, Bethesda MD

Effective 14Sep99 – present:

20-150Y: 5.5-17

1-19Y: Not established

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 14Sep99:

20-150Y: 5.5-17

1-19Y: Not established

03/29/2005 Page 964 Performed at SmithKline Beecham, Van Nuys CA Effective 14Jan88 – 18Sep94: 5 – 20



Test Name: Vitamin B12

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Vitamin B12 pg/mL (SI: pmol/L = 0.738 x pg/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 14Jun00 - present: 220 - 960 Effective 18Oct95 - 13Jun00: 165 - 1000 Effective 30Oct86 - 17Oct95: 200 - 900 Effective 01Jan79 - 29Oct86: 215 - 900

Test no longer performed:

Vitamin B12 Unsaturated Binding Capacity pg/mL (SI: pmol/L = 0.738 x pg/mL)

Performed at SmithKline Beecham, Van Nuys CA

Effective 25Mar88 - 02Jun93: 1000 - 2000



Test Name: Vitamin B12 Unsaturated Binding Capacity

Department: Laboratory Medicine

Lab Area: Synonyms:

Reference Ranges:

Test no longer performed:

Vitamin B12 Unsaturated Binding Capacity pg/mL (SI: pmol/L = 0.738 x pg/mL)

Performed at SmithKline Beecham, Van Nuys CA

Effective 25Mar88 - 02Jun93: 1000 - 2000



Test Name: Vitamin C

Department:Laboratory MedicineLab Area:Mayo Medical LabsSynonyms:Ascorbic Acid

Reference Ranges:

Vitamin C mg/dL (SI: μ mol/L = 56.78 x mg/dL) Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 - present: 0.6 - 2.0

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jan79 – 18Sep94: 0.2 - 2.0

Test Name: Vitamin D 25-Hydroxy **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms: 25-OH Vit. D, 25OH

Reference Ranges:

Vitamin D 25-Hydroxy ng/mL (SI: nmol/L = 2.496 x ng/mL)

Performed at National Institutes of Health, Bethesda MD

Effective 12Dec01 – present:

>=16yrs 10-68

Performed at Mayo Medical Labs, Rochester MN

Effective 20Mar00 – 11Dec01:

>=16yrs 8 – 38

Effective 19Sep94 – 19Mar00:

Winter (D2+D3) 14-42

Summer (D2+D3) 15 - 80

Effective 19Sep94 – 11Dec01:

Normal values were determined in the wintertime in Rochester, MN. Normal patients who have increased exposure to sunlight may have values above this normal range.

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Dec83 - 18Sep94: 10 - 55



Test Name: Vitamin D, 1, 25-Dihydroxy

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Vitamin D, 1, 25-Dihydroxy pg/mL (SI: pmol/L = 2.4 x pg/mL)

Performed at Mayo Medical Labs, Rochester MN

Normal values were determined in the wintertime in Rochester, MN. Normal patients who have increased exposure to sunlight may have values above this normal range.

Effective 09Jan01 – present:

Adult 22-67

Pediatric Not Established

Effective 19Sep94 - 08Jan01: 15 - 60

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Dec83 - 18Sep94: 15 - 60



Test Name: Vitamin E

Department: Laboratory Medicine

Lab Area: Chemistry

Synonyms: Alpha-tocopherol

Reference Ranges:

Vitamin E mg/L (SI: μ mol/L = 2.32 x mg/L)

Performed at National Institutes of Health, Bethesda MD

Effective 14Sep99 – present:

20-150Y: 5.5-17

1-19Y: Not established

Vitamin E $\mu g/mL$ (SI: $\mu mol/L = 2.32 \text{ x } \mu g/mL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 14Sep99:

20-150Y: 5.5-17

1-19Y: Not established

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Jan88 - 18Sep94: 5 - 20



Test Name: Volume, 24hr Urine **Department:** Laboratory Medicine

Lab Area: Chemistry

Synonyms:

Reference Ranges:

Volume, 24hr Urine mL

Performed at National Institutes of Health, Bethesda MD Effective 06Mar99 – present:

0-1Y 100 - 500 1-5Y 500 - 700 6-150Y 600 - 1800



Test Name: von Hippel Lindau **Department:** Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: VHL **Reference Ranges:**

von Hippel Lindau

Performed at Chidren's Hospital, Philadelphia PA Effective 10Sep03 – present



Test Name: Von Willerbrand Factor Panel

Department: Laboratory Medicine

Lab Area: Hematology

Synonyms: vWf, Ristocetin, Cofactors

Reference Ranges:

Von Willerbrand Factor Panel

Performed at National Institutes of Health, Bethesda MD

Effective 11Jun03 – present:

Von Willerbrand Factor Activity: 48-144 % Von Willerbrand Factor Antigen: 41-132 %

Call 104-2359-7 for interpretation.



Test Name: WBC STR Profile Laboratory Medicine

Lab Area: Hematology

Synonyms: Short Tandem Repeat Profile (STR)

Reference Ranges:

WBC STR Profile

Performed at National Institutes of Health, Bethesda MD Effective 01Aug01 - present: Call lab for interpretation.



Test Name: Wound Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Wound Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth; presence of Skin flora, Oral flora, or Fecal flora. For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Wound Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Wound Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth; presence of Skin flora, Oral flora, or Fecal flora. For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Wound Culture/ Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Wound Culture/ Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present:

Gram Stain: No WBCs, No organisms seen

Culture: No growth; presence of Skin flora, Oral flora, or Fecal flora. For information on Antibiotic Susceptibility on significant isolates,

click <u>here</u>



Test Name: Wound Culture/Gram Stain

Department: Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Wound Culture/Gram Stain

Performed at National Institutes of Health, Bethesda MD

Effective 01Jan79 – present

Gram Stain: No WBCs, No organisms seen

Culture: No growth

For information on Antibiotic Susceptibility on significant isolates, click here



Test Name: Wuchereria bancrofti PCR **Department:** Laboratory Medicine

Lab Area: Microbiology

Synonyms:

Reference Ranges:

Wuchereria bancrofti PCR

Performed at National Institutes of Health, Bethesda MD Effective 01Feb00 – present: Negative for Wuchereria bancrofti by PCR

Test Name: Xylose, D-, Serum or Plasma

Department: Laboratory Medicine Lab Area: Mayo Medical Labs

Synonyms:

Reference Ranges:

Xylose, D- mg/dL (SI: mmol/L = 0.0666 x mg/dL) Performed at Mayo Medical Labs, Rochester MN Effective 19Sep94 – present: 25 g loading dose

Adult at 2 hours 30.0 - 52.0

5 g loading dose

Infants (<10 kg) at 1h: Child (10 kg to 9 yrs) at 1h: ≥ 20

Values for serum will be corrected to whole blood values to account for distribution of water between whole blood and serum.

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jul85 – 18Sep94:

Adult 25g 1 hour 29 - 725 g 1 hours 8 - 28

Effective 15Jan90 – 18Sep94 Child 1 hour 15.8 - 39.6



Test Name: Xylose, Urine

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms: d-Xylose

Reference Ranges:

Xylose, Urine

Performed at Mayo Medical Labs, Rochester MN

Effective Dates: 19Sep94 – present

5 gram loading dose

10Y-150Y 23-100% excretion (SI: fraction = % excretion x 0.01)

5 gram loading dose

10Y-150Y 1.15-4.0 g/5hr (SI: mmol/5hr = g/5hr x 6.66)

25 gram loading dose

10Y-150Y 16-100% excretion (SI: fraction = % excretion x 0.01)

25 gram loading dose

10Y-150Y 4.0-8.9 g/5hr (SI: mmol/5hr = g/5hr x 6.66)

Performed at SmithKline Beecham, Van Nuys CA

Effective 01Jul85 – 18Sep94:

25 gram loading dose: 4.8 - 8.2 g/5hr 5 gram loading dose: 1.2 - 2.4 g/5hr

(SI: $mmol/5hr = g/5hr \times 6.66$)



Test Name: Zinc

Department: Laboratory Medicine **Lab Area:** Mayo Medical Labs

Synonyms:

Reference Ranges:

Zinc $\mu g/dL$ (SI: $\mu mol/L = 0.153 \text{ x } \mu g/dL$)

Performed at Mayo Medical Labs, Rochester MN

Effective 15Sep99 – present: 66-110

Performed at National Institutes of Health, Bethesda MD

Effective 03Jul96 - 14Sep99: 58 - 100

Performed at Mayo Medical Labs, Rochester MN

Effective 19Sep94 – 02Jul96: 66 – 110

Performed at SmithKline Beecham, Van Nuys CA

Effective 14Mar86 – 18Sep94: 60 – 130 Effective 01Jan79 – 13Mar86: 55 – 150